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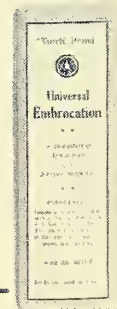
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# Dols LEMONADE

## PURE SUGAR AND LEMONS

SPECIAL LINE: 2d. packets, costing 1/6 doz., packed 2 doz. in attractive counter outers. Carriage paid gross lots net; 5 gross lots less 5%; 10 gross lots less 7½%; 20 gross lots less 10%. Sample 6 doz. carriage paid for 9/- cash.

¼-lb. Tins, lever-lid, lovely label, 7/- doz.  
Carriage paid one gross, cases free.

In bulk, Lemonade and Raspberry, in barrels or cases 1/6 lb.; 28-lb. lever-lid tins 1/7 lb.; 7-lb. lever-lid tins 1/8 lb. Carriage paid 56-lb.

DOLS & CO., Ltd., HUDDERSFIELD, England.

# A Special Health Salt

Packed in a  
Special Tin

Moorland Health Salts are fast becoming a national favourite, the agreeable exhilarating taste and perfectly clear sparkling solution making an instant appeal to all who purchase a tin.

The special air-tight tin, all seams of which are treated with a patent compound during manufacture, ensure the keeping qualities of the salt under all conditions. This is a unique feature appreciated by both the pharmacist and the public.

A fine pin-head granule which gives a continuous effervescence, a fixed selling price, and last, but not least—a good profit for you.

Many men have nearly sold out their first order—Have you?

Prices : 1 gross 6/6 doz. 3 gross 6/3 doz.  
5 gross 6/- doz.

All with good show matter.



Retail  
per 10  $\frac{1}{2}$  l. tin.  
3 for 2/6.



Retail 1/- tin.  
3 for 2/9.

## Here's another business - bringer

Moorland Lemonade Crystals are manufactured with a terpeneless Oil of Lemon and sugar. They have the real lemonade taste and odour, not the imitation.

A tin produces approximately two gallons of delicious, still lemonade, already sweetened for drinking. Pharmacists have been looking for a real lemonade producer and this is it — Remember, Terpeneless Lemon and Sugar, packed in an air-tight tin, there is no improvement upon that. Sells at the fixed price of 1/- per tin. 3 for 2/9.

Prices : 7/6 per dozen. 1 gross 7/3 per dozen.

5 gross 7/- per dozen.

Can't you sell a gross a week?

"Moorland  
Pharmacy  
Service."

**W.B. CARTWRIGHT LTD.**  
RAWDON LEEDS

*Australia.*  
297-299 CASTLEREAGH ST SYDNEY.  
326, FLINDERS LANE, MELBOURNE.



*New Zealand.*  
161, HEREFORD ST. CHRISTCHURCH.  
CORNER ALBERT & DURHAM STS AUCKLAND

"Moorland  
Pharmacy  
Service."

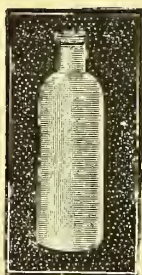
# TO WHOM IT MAY CONCERN

We wish you to understand the advantage of being able to purchase nearly all your requirements in glassware, whether for commercial, chemical, laboratory or scientific use, from the firm who can supply such requisites from stock, whether you reside in London or the provinces. Send us your enquiries.



KALI.

KALIS.  
LIMES.  
MEDICALS.  
EAU DE  
COLOGNES.  
OPAL  
POMADES.



LIME.

SMELLING-  
SALTS.  
SYRINGES.  
DROPPING  
BOTTLES.  
SURGICAL  
GLASSES.



MEDICAL.

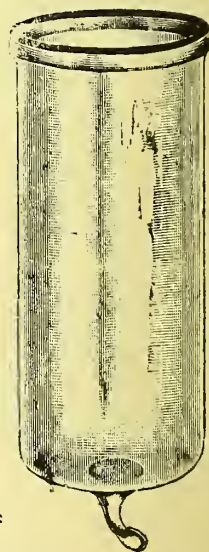
TEST TUBES, VIALS, BURETTES,  
SYRINGES, &c.



TWO-ENDED FEEDER.

Send for list of

CHEMICAL and  
LABORATORY  
GLASSWARE.



TUBES OF ALL SIZES.

Wholesale Only ————— No Retail Firms Supplied.

**JULES LANG & SON,**  
CHARLTON WORKS,  
CHARLTON PLACE, ISLINGTON, N.1.

Telephones: North 2770-2 (3 lines).  
Telegrams: "ASSORTED, PHONE, LONDON."

Codes: A B C, 5th Edition. Scott's 10th Edition (1906).  
Bentley's Complete Phrase Code.

PLEASE MENTION THIS PAPER WHEN ENQUIRING.



# Pharmaceutical & Photographic Products

*R. W. GREEFF & Co., Ltd., offer at lowest prices the following products:*

(WHOLESALE QUANTITIES ONLY)

Acetanilid	Guaiacol Carbonate	Potash Sulpho-Guaiacolate
Acetone	Hexamine	Quinidine and Salts
Acetyl Salicylic Acid	Homatropine & Salts	Quinine and Salts
Acid Lactic	Hydroquinone	Quinine Ethyl Carbonate
Amidol	Ichthyol Substitute	Quinoidine
Amidopyrin	Kelene	Resorcin
Barbitone	Lemon Oil	Saccharin
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Benzamine Lactate	Menthol	Salol
Benzo-Naphthol	Mercurials	Soda Benzoate
Beta-Naphthol	Methylene Blue Medicinal	Soda Hyposulphite
Bromides	Methyl Salicylate	Soda Sulphite Anhydrous
Calcium Lactate	Metol	Sugar of Milk
Chloral Hydrate	Paraldehyde	Tannic Acid Leviss
Cinchonine and Salts	Peppermint Oil	Tannin Albuminate
Cinchonidine and Salts	Pepsine	Tartaric Acid
Cocaine and Salts	Peptone	Terpineol
Creosote Carbonate	Phenacetin	Terpine Hydrate
Eucalyptus Oil	Phenazone	Theobromine
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*R. W. Greeff & Co. Ltd.*

*Thames House Queen Street Place London E.C.4*

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MANCHESTER BRANCH  
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NEW YORK AGENTS  
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# "FARRIS'S" GENUINE WHITE BEESWAX

GENUINE REFINED YELLOW BEESWAX

In  $\frac{1}{2}$ -oz., 1-oz., 2-oz. and 4-oz. rounds.

PURE ENGLISH REFINED SPERMACETI.

HARD REFINED STEARIC ACID

WAXES of every known kind and for every purpose

*The only actual Manufacturing Wax Chandler in the City of London.*

## CHARLES FARRIS

OFFICES, WORKS and SALE ROOMS:

Helmet Court, Bishopsgate, London, E.C. 2.

WAREHOUSES and STORES:

91 & 93 Bishopsgate, & 12 Wormwood Street, E.C.2.

*Make a  
clean sweep*  
of your  
INSURANCE  
TROUBLES



and enjoy the perfected Bonus  
System and wide protection of

**POOL** COMPREHENSIVE **POLICY**  
SHOPKEEPERS'

The Licenses & General Insurance Co. Ltd.  
Victoria Embankment  
Next Temple Stn. W.C.2

FUNDS EXCEED £500,000. FOUNDED 1890

### ONE POLICY COVERS

Fire, Burglary, Workmen's Com-  
pensation, Plate Glass, Public Li-  
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of Profits, Loss of Rent, Riot and  
Civil Commotion, Bursting Water-  
pipes, Storm, Flood & Tempest.  
ANNUAL BONUSES



Maw's



Page

May 28, 1921

No. 502

## How do you judge the Success of a Window Display ?

**D**O you realise that a window display may be a failure even though it sells goods and increases your takings ?

To be a success a window must sell goods which yield good profits, and which bring repeat orders with certainty. More than this ; you must be certain that the profit on those repeat orders will come to you, and not go to outside competitors, the hairdresser, draper, etc.

In short, it is advisable to think carefully what goods you will show in your window. A display of a widely advertised proprietary with cut profits may bring an increase in sales and an increase in takings, but it will probably mean a decrease in profits.

A display of goods which can be purchased from outside retailers may be profitable at the moment, but to push such goods is to assist your most dangerous competitors to prosperity.

A display of Maw's Goods, on the other hand, ensures generous profits, repeat orders ; and, above all, protection against outside competition. Maw's Goods are the chemist's goods ; they are sold to no other retailer. When you put the products of the House of Maw into your window you are laying a sure foundation for permanent prosperity.

Telephone:  
City 7  
Private  
Branch  
Exchange

Telegrams  
Eleven  
Cent  
London

**S. Maw, Son & Sons Ltd.**  
Aldersgate St., London.  
and Barnet.

Cables,  
Eleven  
London

Code  
A.B.C.  
4th & 5th  
Edition



**BAISS BROTHERS****& COMPANY, LTD.***Established 1833.***SOLID & LIQUID**

# EXTRACTS

All official Extracts are prepared by us in strict conformity with  
the British Pharmacopœia.

**BAISS' EXTRACTS** are the 'outcome of ninety years'  
manufacturing experience.

Fine Chemicals.

Standardised Tinctures.

Concentrated Infusions  
and Decoctions.

Pills & Tablets.

Soluble Essences.

Hospital Furniture.

Surgical Instruments.

*Price Lists in various languages.*

## **BAISS BROTHERS AND COMPANY, LTD.**

**Wholesale & Export Druggists, Manufacturing  
Chemists & Makers of Surgical Instruments.**

*Contractors to His Majesty's Government ; the  
Crown Agents for the Colonies ; various Foreign  
Governments ; and the principal Hospitals and  
Institutions at Home and Abroad.*

**Grange Works, 174, 175, 176 GRANGE ROAD,  
BERMONDSEY, LONDON, S.E.1**

# 9d. per bottle, or 25% clear profit on the selling price of ENO if you buy in gross lots

We are making two Special Advertising Offers to retail pharmacists in return for 14 days' window display on the following basis :—

**One-Gross Orders**—36/- per dozen, less 20% and  $6\frac{1}{4}\%$ . This affords you the profit outlined above, or a total profit of £5 8s. 0d. on your outlay of £16 4s. 0d. Cases will be charged for at the rate of 12/- per gross case, but will be allowed for in full if returned to our works in good condition, carriage paid.

**Half-Gross Orders**—£8 8s. 0d. case inclusive and non-returnable. This represents a definite profit to you of 8d. per bottle, or £2 8s. 0d. on your outlay. This can only be treated as a TRIAL order, and any repeat orders should be for one gross.

*The above special offers are executed carriage paid to your pharmacy, and include a choice selection of new and attractive advertising material to assist in the display of our goods.*



## CHEMISTS' EXHIBITION

CENTRAL HALL  
WESTMINSTER, S.W.

June 20-24, 1921

ENO'S FRUIT SALT will occupy Stand No. 2 at the above Exhibition. We shall be pleased to see you there and to send you tickets of admission if you need them.

## ENO "Sales Helps"

Following are some of our attractive sales helps for retailers which are supplied free upon application :—

1. Counter Wrappers (8 oz. size).
2. Transparencies (in two sizes, 20" × 6" or 33" × 8").
3. Price Cards for counter or window display. (These useful cards are available in four different wordings, and measure  $11\frac{3}{4}" \times 4\frac{3}{4}"$ .)
4. Shelf strips. (These are tastefully printed in colours and are particularly suitable for shelves behind your counter or in your window. Available in sets of four. Size  $18\frac{3}{4}" \times 3"$ .)
5. Showcards. (In convenient sizes for counter and window display.)
6. Electros of advertisements for local advertising.

# ENO'S FRUIT SALT

*Brings Health to Your Customers and PROFIT to You*

For further particulars please write to the SALES MANAGER,  
J. C. ENO Ltd., Blackfriars House, New Bridge St., London, E.C. 4



## MERIT SELLS THESE

### FROZOCLONE

The Original Solid  
Eau de Cologne.

Retails (P.A.T.A.) 3/6,  
giving at least 10d.  
profit on each sale.  
32/- per doz.

For Export Quantities of not  
less than 4 gross a further  
substantial allowance will be  
made.

Also

### SOLID ENGLISH LAVENDER

Same Style and Prices.

The Original Solid Eau de Cologne.  
The World's Great Perfume and  
Refresher in Solid Form.

## ANALAX

(Reg. Pat. No. 310716)



The Ideal Fruity Laxative in Pastille Form.  
DELICIOUS. RELIABLE. EFFECTIVE.

Retail (P.A.T.A.) Minimum 2/3  
21/- per doz., stamped.



## NAIL POLISH

with new and  
distinctive  
features.

Antiseptic,  
softens the  
cuticle, lasting  
and brilliant  
polish.

Retails (P.A.T.A.)  
1/9

15/- per doz.

## R. Demuth's Laboratories,

68 Salusbury Road, and Montrose Avenue,  
LONDON, N.W. 6.

# DEARBORN

LIMITED

37 Gray's Inn Road, LONDON, W.C.

## Toilet Specialities.

		Price per doz. to Retailer.	Selling Price P.A.T.A.
PILENTA SOAP	-	10/-	1/-
A complexion soap.			
PROLACTUM	-	10/-	1/-
For the lips.			
PARSIDIUM JELLY	-	10/-	1/-
For wrinkles.			
ALLACITE of ORANGE	-	22/6	2/6
A dressing cream. BLOSSOM			
BORANIUM	-	22/6	2/6
A hair tonic.			
CLEMINITE	-	22/6	2/6
For a face lotion.			
COLLIANDUM	-	22/6	2/6
For a face tint.			
PERGOL	-	22/6	2/6
A deodorant.			
STALLAX	-	22/6	2/6
For a shampoo.			
JETTALINE	-	31/6	3/6
For clearing the skin.			
PHEMINOL	-	36/-	4/-
A depilatory.			
MENNALINE	-	36/-	4/-
For the eyelashes.			
MERCOLIZED WAX	-	31/6	3/6
A face cream.			
STYMOL	-	36/-	4/-
For oily complexions and blackheads.			
BARSYDE	-	22/6	2/6
Dandruff eradicator.			
TAMMALITE	-	22/6	2/6
For grey or faded hair.			
LIQUID PERGOL	-	31/6	3/6
To check excessive perspiration locally.			
BICROLIUM	-	22/6	2/6
For whitening the hands.			
HARAPOSA	-	22/6	2/6
Nut oil shampoo.			

STOCKED BY ALL WHOLESALE HOUSES

### COLONIAL DEPOTS AND AGENCIES.

#### AUSTRALIA:

ALL WHOLESALE, and  
DEARBORN, Ltd., Grace House, Clarence Street, Sydney.

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LENNON & CO., Ltd. (Cape Town)  
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#### INDIA:

KEMP & CO., Ltd. (Bombay)  
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MEHTA BROS. (Calcutta)  
JAMNADAS BROS. (Bombay)

#### NEW ZEALAND:

SHARLAND & CO., Ltd. (Auckland & Wellington)

#### SOUTH AMERICA:

DEARBORN, Ltd., Calle Santa 264, Buenos Aires.

# AYRTON'S WEEKLY

PAGE  
15

## EVERY-DAY AYRTON TOILET NEEDS

The AYRTON line of Toilet Specialties comprises articles necessary for Milady's toilet and in every-day demand. Each preparation is prepared from the purest ingredients, whilst the packings have been artistically designed for effective display.

**SPECIAL BONUS OFFER.**—With an order for one gross of any of the undermentioned AYRTON Toilet Specialties, and your agreement to make a window display for two weeks, we will send ONE DOZEN free of charge.

*ALL AYRTON TOILET SPECIALTIES ARE  
PRICE PROTECTED.*

**AYRTON'S COCOANUT OIL SHAMPOO**  
P.A.T.A. per bottle 2/3 ; per dozen 16/6

**AYRTON'S C.N.O. (Cocoanut Oil) Shampoo Tablets**  
P.A.T.A. 1/3 per carton ; per dozen 10/- ; per gross 114/-

**AYRTON'S COMPLEXION WAX**  
P.A.T.A. per tin 1/3 ; per dozen 10/- ; per gross 114/-

**AYRTON'S HAIR PRESCRIPTION**  
P.A.T.A. per bottle 1/9 ; per dozen 14/-

**AYRTON'S HAIR REMOVER**  
P.A.T.A. per bottle 1/6 and 2/6 ; per dozen 10/- and 16/- ;  
per gross 114/- and 180/-

**AYRTON'S TALCUM POWDER**  
P.A.T.A. per tin 1/- ; per dozen 8/- ; per gross 90/-

**£5 Orders Carriage Paid.**

*Write for particulars of Lantern Slides and Personal Publicity Service.*

Link your  
Pharmacy to our  
Publicity Service—  
**It pays !**

*LONDON AGENTS :*

**J. C. GAMBLES & CO.**  
49 Farringdon Street,  
LONDON - E.C.4.

**AYRTON, SAUNDERS & Co. L<sup>TD</sup>**  
Manufacturing Chemists  
58 Hanover Street, LIVERPOOL

# "CUTEX"

## Manicure Preparations



No.		P.A.T.A.
1.	"Cutex" the Ideal Cuticle Remover, Small	18/- 2/-
2.	" " " Large	36/- 4/-
4.	" Nail White ...	18/- 2/-
5.	" " Polish Cake, White	18/- 2/-
6.	" " " Pink	18/- 2/-
7.	" " Trial Size	5/6 7½d.
22.	" Nail Polish Stick, in metal tube	13/6 1/6
8.	" " Powder	13/6 1/6
9.	" Polishing Paste, Pink	18/- 2/-
10.	" " " Plain	18/- 2/-
11.	" Liquid Nail Enamel	22/6 2/6
13.	" Cuticle Comfort ...	18/- 2/-
14.	" Nail Bleach Powder	18/- 2/-
15.	" " Rouge ...	18/- 2/-
16.	" Compact Manicure Set	27/- 3/-
17.	" Travelling " "	84/- 9/6
18.	" Boudoir " "	168/- 19/-
31.	" Cold Cream ...	18/- 2/-

**Henry C. Quelch & Co.**  
4 & 5 Ludgate Sq., London, E.C.4

SOLE AGENTS FOR THE  
**Northam Warren Corporation, Ltd.**  
Montreal and New York.

IRISH AGENT:  
**K. O'Sullivan, 31 Wicklow Street, Dublin,**  
where a large range of samples may be seen.



## Saves Teeth If Used in Time

When your customers, men or women, complain of tender or bleeding gums, ask them to try Forhan's For the Gums.

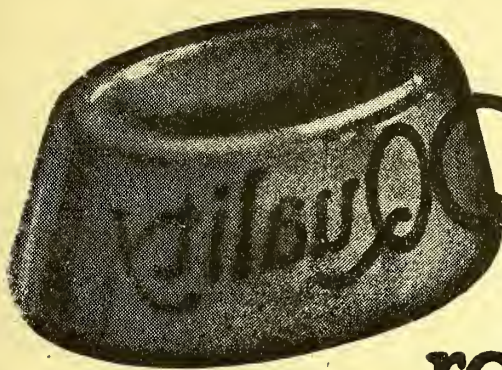
Explain to them that tender gums are symptoms of Pyorrhea, and that Forhan's For the Gums will check the progress of Pyorrhea if used in time and used consistently. Forhan's cleans and polishes the teeth as well, preventing decay while it heals.

Forhan's is advertised consistently in most magazines and in many newspapers. Chemists everywhere find it a profitable and ready seller. Write for prices and trade information.

**Thos. Christy & Co.,**  
4-12 Old Swan Lane, London, E.C.4.

# Forhan's

## FOR THE GUMS



Quality  
is  
reflected  
in every aspect of  
**Emulsion Antiseptic  
Throat Pastilles** (*Kerfoot*)

**THE EFFICACY** of these Pastilles is proved by the growing demand after many years of public trial.

**THE FORMULA** consists of Menthol, Oil of Eucalyptus, Terebene, Norwegian Pine Oil, Licorice and Gum Arabic.

**THE COATING** is one which was invented by us many years ago. It is always pleasant to taste and smell.

**THE FINISH** is hard and glossy and does not collect dust when exposed for sale.

**THE SELLING AIDS** include large panel showcards, circular counter cards, cartons bearing Chemist's own name, etc.

**THE PRICE** is 3/3 per lb. in bulk. 2 oz. and 4 oz. gold lacquered tins are 8/- and 15/- dozen respectively; 9d. and 1/4 "Marble" tins are 5/6 and 11/- per dozen respectively.

**THOMAS KERFOOT & CO. LTD.**  
BARDSLEY VALE, LANCASHIRE,  
& Bardsley House, London, N.1  
ESTABLISHED 1797.

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# K. B. MAVLANKAR

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"EKDUM LONDON."

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Sole European Agent to  
ESSENFLOUR  
PRODUCTS, LTD.,  
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**ESSENTIAL OILS**  
Synthetic Chemicals  
Natural Flower Oils  
Artificial Flower Oils  
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All Indian Essential Oils

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AND  
DITTA MARIO DE  
PASQUALE, Messina.

26-27 Hatton Garden - - LONDON, E.C. 1.

And at 29 CORPORATION STREET, MANCHESTER.

## RESTUCCIA'S Pure Sicilian Oils.

**LEMON**  
**ORANGE**  
**BERGAMOT**

*Finest quality with a world-wide reputation.*

THE  
**CITRUS BRAND and MANUFACTORY**  
(G. A. RESTUCCIA, Manager)  
**MESSINA - - ITALY.**

(Established 1860)

LONDON AGENTS:  
J. ALEXANDER & PRICE, Ltd. - 5 Idol Lane, E.C. 3

## RUVOIRE ET CIE

MANCHESTER & ANTIBES.

High-class Concentrated Perfumes  
made with some of the finest flower  
oils from the South of France, in  
high-class rod-stoppered hexagon  
bottles with gold seals.

ODOURS—

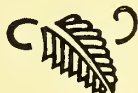
PARMA VIOLET. SWEET PEA.  
WHITE ROSE. WHITE LILAC.  
WALLFLOWER. LILY OF THE VALLEY.  
FREE FROM SPIRIT.

Above combination mounted on  
artistic card, displaying One Dozen  
Bottles.

*A very attractive and good Selling Line.*

APPLY— **A. M. EVANS,**  
154 CHURCH LANE, HARPURHEY  
MANCHESTER.

# CHEMICAL WORKS ROERMOND



AROMATIC CHEMICALS  
SYNTHETIC PERFUMES  
FLOWER OILS -  
ESSENTIAL OILS  
ARTIF. MUSKS -

**"RACO"** FLOWER OILS  
COMPOUNDS  
CONCENTRATED ESSENCES  
for Perfuming Toilet and Cosmetic Preparations.

To be used by every Chemist.

Simplest and easiest!

The use of our essences of unequalled delicacy gives  
QUALITY AND DISTINCTION TO YOUR PRODUCTS.

Please send for samples to prove our essences and to convince you of  
their great superiority.

Samples and expert advice for practical working will be furnished  
promptly on request.

**H. RAAB & CO.**  
ROERMOND HOLLAND.

Represented by—

**ALFRED PAUL WHITE,**  
5 WATER LANE, GREAT TOWER STREET,  
LONDON, E.C.3.

# N.V. CHEMISCHE FABRIEK "NAARDEN"

BUSSUM, HOLLAND.

**GLYCERINE** CHEM. PURE, S.G. 1.26

**VANILLIN** 100 % CHEM. PURE.

**COUMARIN** 100 % CHEM. PURE.

**SAFROL**, PURE.

*Apply for prices :*

**GERALD BROMAGE & Co., 9-10 Foster Lane, E.C.2**

Telephone: CITY 4719

## ROURE BERTRAND FILS, GRASSE. *Established 1820.*

**LAVENDER (French), SPIKE LAVENDER (French and Spanish)**

NEROLI, GERANIUM (African and Bourbon), SANDALWOOD, PETITGRAIN (French and American),

VETIVER (Java and Reunion), ROSEMARY, BOIS DE ROSE FEMELLE, YLANG, &c.

ORRIS CONCRETE and LIQUID.

ESSENCES, SOLIDES and LIQUIDS from flowers.

RESINOIDS and POMADES.

We have Stocks in London of the most important Essential Oils and Perfumery Products.

## JUSTIN DUPONT, Argenteuil (S. & O.), France

Makers of **SYNTHETIC PERFUMES**

and some of the finest original odours extant, for Sachets, &c.

SOLE AGENTS FOR THE UNITED KINGDOM:

**STEPHENS BROTHERS & CO.,** Offices: 13a FINSBURY SQUARE, LONDON, E.C.2  
Warehouse: 3/4 MALLOW STREET, OLD STREET, LONDON, E.C.1  
Wholesale Houses only supplied.

# CHLOROPHYLL

HIGHEST QUALITY.

ABSOLUTELY PURE.

UNIFORM DELIVERIES.

CHLOROPHYLL C. Oil soluble. Blue Shade.

CHLOROPHYLL CG. Oil soluble. Yellow Shade

CHLOROPHYLL S. Water and spirit soluble.

**THE SANDOZ CHEMICAL CO. LTD., BRADFORD.**

# "Crown" Specialities



THE "Crown" Specialities are British made, and guarantee a good profit to the Pharmacist. They have a ready sale that will quickly enable you to build up a good volume of trade in these popular lines.

#### LAVENDER SMELLING SALTS.

These well-known Smelling Salts have been very great favourites with the public for nearly half-a-century, by reason of their superior deodorizing, invigorating and refreshing qualities.

**CRAB APPLE BLOSSOMS.** This extra concentrated Perfume is very sweet, delicate, and lasting, and has made a great reputation for itself wherever it has become known.

**EXTRAIT CORONITA.** This delicious Perfume is one of extreme refinement and is unusually lasting. It has already won the appreciation of the public. Packed in attractive cartons and handsome bottles.

Made by the Crown Perfumery Co. Ltd.,  
Sydney Road, Homerton, London, E. 9.



ESTABLISHED 1895

# MOHAWK BRAND OIL PEPPERMINT (NATURAL AND REDISTILLED) AMERICAN

## PACKED AS FOLLOWS:

3 20-lb. Tins to a Case | 10 5-lb. Tins to a Case  
5 10-lb. Tins to a Case | 50 1-lb. Bottles to a Case

## All Packages Inclusive.

*Preferred and specified by all discriminating  
Manufacturers as a product of unexcelled  
purity and delicacy of flavour.*

Exclusive Agents for the United Kingdom:

**Messrs. E. GUILLEVIC & COMPANY,**  
19 ST. DUNSTON'S HILL - - LONDON.



MAGNUS, MABEE & REYNARD, INC. NEW YORK U.S.A.

*Lautier Fils Ltd. have REMOVED*

*from 210 Tower Bridge Rd. to 4 Denman St., S.E.1.*

TO WHICH ADDRESS ALL FUTURE ENQUIRIES SHOULD BE SENT.

# LABELS for Perfumery of all kinds

SAMPLES SENT ON REQUEST.

LARGE SELECTION OF STOCK DESIGNS.

**DOUIN & JOUNEAU, French Lithographers, 3 rue Papin, PARIS.**

# MUSK GENUINE INDIAN

SPOT DELIVERY.

Price on Application.

**RAOUL FRÈRES**

*Drug and Chemical Manufacturers,*

6 HOLBORN VIADUCT, LONDON, E.C.1.

# Shipkoff's Pure Otto of Rose

*Nature ordained that Otto of Rose should have certain chemical and physical contents. Fakers design rose oils having the same contents, but they are not Otto of Rose.*

**Shipkoff's Otto of Rose is Nature's Otto.**

*Before placing your contract be sure to get Shipkoff's sample and price, and try it. Original Sample Coppers in 1, 2 & 4-oz. sizes.*

**ONCE TRIED—ALWAYS USED.**

Highest Awards at all Universal Expositions, including Four Grand Prizes.

**Shipkoff & Co., Kazanlik, Bulgaria.**

BRANCH OFFICE IN SOFIA.

Model Steam Factories in Kazanlik, Kalofer, Kerlovo and Rahmenlari. London Depot—

G. P. & J. BAKER, LTD., 5 Giltspur St., Newgate St., E.C.1.

Established 1880.

# SYNTHETIC OTTOS

"Zinyl" Brand (Regd.)

## TRUE SYNTHETIC PRODUCTS.

THE Synthetic Otto of Neroli, "Zinyl" Brand, for instance, used in the proportion of  $\frac{3}{4}$  oz. to the gallon of spirit is equal to a concentration of 220 times, or about five times stronger than ordinary "concentrated perfumes"; this gives an excellent basis for Eau de Cologne, and we suggest a reference to "Pharmaceutical Formulas" for many admirable forms for this and other perfumes.

Yet the present price of this Otto is only 10/- oz., against to-day's value of fine Oil of Neroli about 80/- oz., and 5 drachms of the Synthetic Otto are equal to one ounce of the natural oil.

Some of the Synthetic Ottos show even greater advantages, e.g. Rose (described by the *Chemist and Druggist* in 1912 as "a triumph of Synthetic Chemistry") is still 21/- oz., while fine Turkish Otto is quoted to-day about 90/- oz. !

In the manufacture of all Toilet Preparations the Synthetic Ottos by reason of their enormous concentration will be found wonderfully economical.

### Synthetic Otto Rose "Zinyl" Brand.

"This product has a remarkably sweet rose odour, quite free from any objectionable smell of rose geranium. The abnormal prices of otto of rose and its excessive adulteration are forcing perfumers to depend more and more on the synthetic product which has the advantage of constancy."

Chemist & Druggist.

### Oriental Synthetic Otto

"ZINYL" BRAND.

This beautiful product has a most powerful heavy odour absolutely reminiscent of the Far East and is a pronounced success, being supplied to various well-known houses 17/6 oz.

## H. E. STEVENSON & CO.

122 Great Suffolk Street,

London, S.E.1.

## Potter & Clarke's Original Specialities



### CREAMS A Revolution in Medicated Lozenges.

Raspberry Sulphur Creams.  
Sulphur Figs.

ONLY SHOW THEM—  
THEY SELL THEMSELVES

1/11 per lb.    28 lb. 1/8.    56 lb. 1/7.    112 lb. 1/6.

### SARSAPARILLA BLOOD JUBES. THE HEALTH PRESERVER.

Prepared from the finest Compound Extract of Sarsaparilla.

4-lb. tins 1/11. 16-lb. 1/9. 28-lb. 1/8. 56-lb. 1/7 1 cwt. 1/6

## Potter & Clarke's Toilet Specialities

"BORALIA"

COCONUT OIL  
SHAMPOO

COCONUT OIL  
BRILLIANTINE

*Beautiful showcards  
with all orders.*



"BORALIA"

DENTAL  
CREAM

TOOTH  
POWDER

*Produced in a style  
that will sell.*

### BORALIA COCONUT OIL SHAMPOO

2-oz. bottles, 8/- dozen.

4-oz. bottles, 12/- dozen.

*Special prices for quantity. 500 handbills with customer's  
name and address, with orders for 6 dozen assorted sizes.*

## POTTER & CLARKE, Ltd.

60, 62, 64 ARTILLERY LANE, LONDON, E. 1.

And at 24 Luna Street, Great Ancoats, MANCHESTER.

OPEN UNTIL JUNE 30, 1921

## Special Bonus Offer

ON THE

# "ERASMIC" Shaving Stick

With each order of 3 dozen and upwards  
we will supply 13 Sticks to the dozen.

### Wholesale Price.

3 doz. Shaving Sticks	
at 9/6 ... ..	£1-8-6
Less 5% discount ...	1-5
	<u>£1-7-1</u>

### Retail Price.

3 doz. Shaving Sticks	
at 15/- ... ..	£2-5-0
¼ doz. ditto, bonus ...	3-9
	<u>£2-8-9</u>

## PROFIT 80%

"ERASMIC," Perfumers, WARRINGTON.

## Good Sellers <sup>during</sup> <sub>—the—</sub> Hot Weather

# "DURAPEDE"

A liquid application for tender and hot feet. No bathing necessary. It is applied to the feet with a sponge night and morning.

4-oz. bottles - 7/9 per doz.

10 " " - 14/6 " "

*Name and Address printed free on 3 dozen lots. Showcards supplied.*

.....

## LAURENCE'S ANTI-STING

*A wonderful preventative against and a certain remedy for the Stings of Wasps, Bees, Mosquitoes, Gnats, Midges, &c.*

AS A PREVENTATIVE—Paint the exposed part of the body.

AS A REMEDY.—Apply one drop to the part affected, and renew at intervals until relief is obtained.

Packed in bottles, each in a distinctive carton.

**Price 5/9 per dozen.**

SAMPLES ON APPLICATION.

---

### C. R. Harker, Stagg & Morgan, Ltd.

DEVON WHARF AND BELL WHARF,

EMMOTT STREET, MILE END, LONDON, E.1.

**SALES  
UP  
200%**

## Your Best Advertisement

is an attractive window display of the right goods. It not only brings customers for the goods displayed, but customers for other lines as well.

The more attractive the window the more valuable will be the advertisement to you, provided the goods give satisfaction to the public and generous profits to you. EUCRYL DENTIFRICES—POWDER and PASTE do both.

*The success of the Eucryl Window Display Competition is vouched for by the many letters we receive from chemists daily.*

*A customer writes:—*

"I only intended to have the window display for a fortnight, but there was such an increase in the sales that I kept it in for a month. The sales went up by quite 200%."

5/5/21.

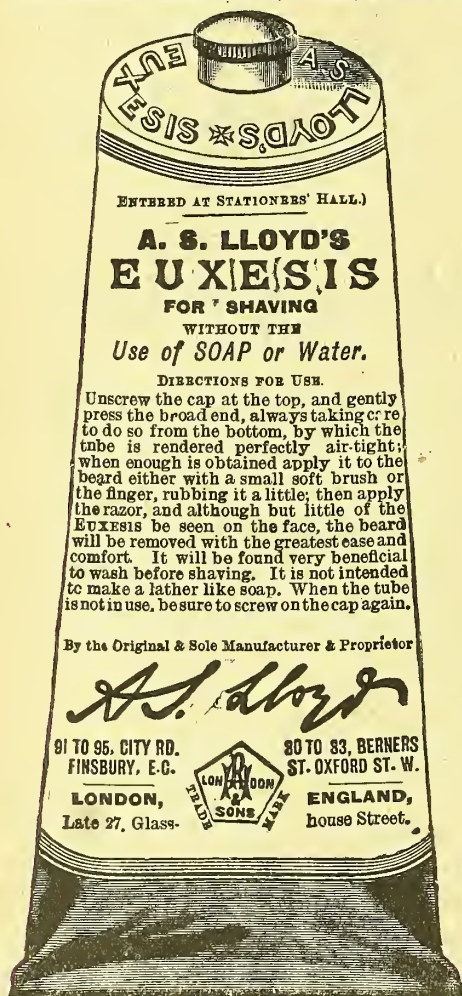
**Competition Closes June 30**

**EUCRYL, LTD., SHIRLEY, SOUTHAMPTON**

# A. S. LLOYD'S EUXESIS

(THE GENUINE).

For Shaving without Soap, Water, or Brush.



By the Original & Sole Manufacturer & Proprietor

*A. S. Lloyd*

91 TO 95, CITY RD.  
FINSBURY, E.C.

LONDON,  
Late 27, Glass.



80 TO 83, BERNERS  
ST. OXFORD ST. W.

ENGLAND,  
house Street.

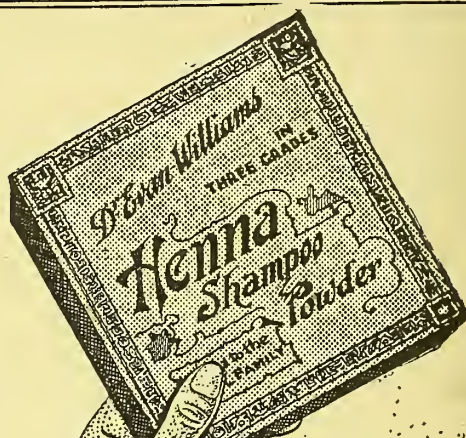
Sold by all Perfumers and Chemists  
throughout the World.

R. HOVENDEN & SONS having purchased, under an administration suit, the Business of the late A. S. LLOYD, with the Receipt, Trade-Mark, and Goodwill of the celebrated Euxesis, the Trade are cautioned that the original and genuine Euxesis is now manufactured at our Factory ONLY, and may be obtained at either of our Warehouses.

PRICES ON APPLICATION.

NOTICE.—THE GENUINE A. S. LLOYD'S EUXESIS bears a label printed in BLACK only on a Yellow ground, with our Trade Mark at the bottom, as illustration.

Proprietors: R. HOVENDEN & SONS, LTD.,  
LONDON: 29-33 Berners Street, W.; and 89-95 City Road, E.C.



## EVAN WILLIAMS' ORIGINAL Henna Shampoo

Your Customers  
will insist on the  
Evan Williams'  
HENNA  
SHAMPOO

having been taught  
by experience. Are  
you ready to meet  
their demands?

Stock moves freely  
at a handsome profit.

Full particulars are  
included in The SHAMPOO  
SALESMAN, which is  
sent free on request.

The EVAN WILLIAMS CO., LTD.,  
18 & 18a, Oyle St., Foley St., London, W.1.

## For Shaving without Soap, Water, or Brush.

# CAUTION.

**Aimée Lloyd, in RED. Refuse any other.**

# AIMÉE LLOYD & CO.

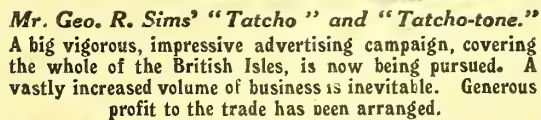
**23 PANTON STREET (formerly named Spur Street).**  
**HAYMARKET, LONDON, S.W.**

**N.B.**—When ordering from Wholesale Houses write **LLOYD'S EUXESIS (WIDOW'S)**.

# Dental Plate Powder



**American Drug Supply Co., Ltd.**  
6 Northumberland Avenue, LONDON, W.C.2



**TATCHO**  
THE HAIR GROWER  
Price 2/9

PER DOZEN.

26/-

PER DOZEN.

**TATCHO-TONE**  
FOR GREY HAIR  
Price 4/6

42/-

PER DOZEN.

**GEO. R. SIMS' HAIR RESTORER CO.**  
5 Great Queen St., Kingsway, LONDON, W.C.2.

Parfumerie

**Bourjois**

Paris

**Poudre de Riz de Java**

No. 45  
10/- per doz.

P.A.T.A.  
1/3 per box.



No. 495.  
7/- per doz.

P.A.T.A.  
10½d. per box.

No. 45.

**A. Bourjois & Cie, Ltd., 66 Carter Lane, London, E.C. 4.**

Also manufacturers of the celebrated "ASHES OF ROSES," No. 2, 15/- per doz.; P.A.T.A. 1/9 per box.

**SILKODONO**  
for the HAIR & SCALP

**The Magic Hair Remedy**

SILKODONO is a Hair Remedy that has established a well-merited reputation, both in the British Isles as well as in France and America for curing Hair Troubles such as Scurf, Dandruff, Weak or Falling Hair, and generally bringing back the strength and lustre to impoverished Hair when all other remedies have failed. Its popularity with the public increases daily, and it yields Chemists a substantial profit, and as it represents particularly good value, regular and recurring sales are assured wherever it is shown.



To aid you in your distribution of SILKODONO we supply, Free of Charge, on request, Showcards, printed in 14 colours, Dummy Cartons and Booklets on SILKODONO Hair Culture for men, women and children.

**Wholesale Prices.**

1/6 size  
12/-  
per dozen.  
2/6 size  
20/-  
per dozen.  
4/6 size  
36/-  
per dozen.



**SILKS TOILET CO.** 8-9 Red Lion Street, Holborn, London, W.C.

Telephone: Holb. 3095.

Telegrams: "Silporanob, Holb., London."

COMPETITIVE PRICES  
FOR

**ROUGE PADS**

IN

Cotton Fleece, Cotton Plush and  
Lambswool.

STOCKED IN FOUR SIZES.

Actual Manufacturers:—

**FRANK BUCKLER, LTD.,**  
Castle Works, Mount Pleasant Rd.,  
TOTTENHAM, N. 17.

**G. B. KENT & SONS, LTD.**

Are known the World over as  
the Largest Manufacturers of

**BEST  
BRITISH  
BRUSHES**

Please write for full Particulars to—

**75 Farringdon Road, E.C. 1.**

# PAPIER POUDRÉ

TRADE

MARKS



"LEHCARESOR."

**British Made  
Goods.**

*Beware of  
Spurious Imitations*

**Papier Poudre**

**Note our Trade  
Marks.**

REGISTERED



PAPIER POUDRÉ, LTD.

46 Baker St., Portman Sq., London, W.1.  
and in Paris.

**WHITE, ROSE or RACHEL Tints, 4d., 6d., 8d. and 1/4 size Booklets,  
2/8, 3/9, 5/- and 10/- per dozen net, respectively.**

**SUNBURN TINT, 8d. & 1/4 sizes only, 5/- & 10/- per doz. net.**

**REFILLS to Mirror Cases in White, Rose or Rachel ... 2/8 per doz. net.**  
**8d. SHAVING PADS, for Use after Shaving (unscented). White only ... 5/- per doz. net.**

## POPPCEA ROUGE

*A most popular line.* (Regd.)

Made in booklet form. One size only, viz. 1/-, at 8/- per dozen net.  
**Mirror Cases 1/4 at 10/- per doz. Refills for same 6d., at 3/9 per doz. net.**

NOTICE TO THE TRADE.—As supplies of material have now reached a  
state of normal condition we are in the position of being able to execute all orders.

**PAPIER POUDRÉ, Ltd., 46 BAKER STREET, PORTMAN SQ., LONDON, W.1**

Telegrams—"Perous London."  
Codes—A B C, 5th Edition.  
Telephone—City 6910 (2 lines).

104 & 106 GOLDEN LANE,  
LONDON, E.C. 1.

DEAR SIR,

## Re Antiseptic Toilet and Baby Powder, J. & J.

To gain the confidence of your customers is the keynote to SUCCESS. You are SAFE in recommending this powder; it has many rivals but no equal. BEST FOR TOILET, BEST FOR NURSERY. It will bring customers back to your Pharmacy over and over again for more, the QUALITY compels this, and that is what is wanted. Moreover, the customers' presence offers the opportunity to sell them something else.

Yours faithfully,

JOHN TIMPSON & CO., LTD.

Agents for JOHNSON & JOHNSON.



THE  
ORIGINAL

USUAL  
WHOLESALE, OR

SECKER, ROBB & CO.

Cromwell House,  
SURREY STREET, W.C. 2.

Telegrams: "Tinophiz, London."  
Telephone: Central 2420.

**Orisal** Regd.

The Original & Successful Remedy for PYORRHEA  
Prescribed by the Dental Profession.

### PRICES.

Wholesale (including Government Duty)		Retail	
Dental Paste	22/- per doz.	6d.	2/6 per tube
Mouth Wash	44/- & 27/-	1/-	5/- & 3/- per bottle
Special Brush	24/- per doz.	2/6	each
Dental Tooth Powder (Large Size)	18/-	2/-	each

Of Wholesalers, or direct from

ORISAL Ltd., 77 George St., Portman Sq., W.1.  
Telephone No.: Mayfair 2899.

## THE Chemist and Druggist SUPPLEMENT

is an infallible help when you want  
to buy or sell a business, secure an  
agency, an assistant or a situation, or

SELL SURPLUS STOCKS.

The Tariff is printed on the front cover of the Coloured  
Supplement.

Address all inquiries to—  
The Publisher: THE CHEMIST AND DRUGGIST,  
42 Cannon Street, LONDON, E.C. 4.

*Where Quality Reigns Supreme*

## OUR WEEKLY MESSAGE.

Good-will in modern pharmacy is built up on modern lines. This is the age of trade-marked goods, and the introduction of own-name goods showing high ratios of profit often makes only for low turnovers and dwindling custom. The Chemist who earns the name for having up-to-date stocks and for introducing the right goods is the one who succeeds the best. "A's Food, but B's Mouth Wash, and most certainly C's Powder, although perhaps their Soaps are not so good as D's," is a much more convincing argument than, "It is my own and therefore best."

\* \* \*

Recommend  
ROSINE or  
DE LUZY lines  
and their goodness  
will earn you  
good-will.

\* \* \*

*Sales daily increasing for*

# POUDRE DE LUZY

**Creme de Luzy  
Perfumes de Luzy**

*Write for tariff of this  
beautiful Series.*



## BEAVERPUFS

The dainty Fur and  
Leather puffs that  
always command  
profitable sales.

**4/6 P.A.T.A. 36/-doz.**

In display boxes.



## ASTRAL STANDS

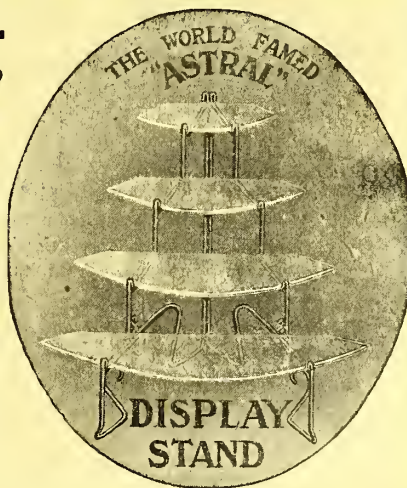
*Copper & Glass—the  
secret of dainty  
displays.*

No. 1.—Height 8 in., 3  
shelves, 9 in. by 3 in.,  
11 in. by 3½ in., 13 in.  
by 4 in. - 14/- each

No. 2.—Height 12 in., 3  
shelves, 9 in. by 3 in.,  
11 in. by 3½ in., 13 in.  
by 4 in. - 16/6 each

No. 3.—Height 19 in., 4  
shelves, 9 in. by 3 in.,  
11 in. by 3½ in., 13 in.  
by 4 in., 16 in. by 4½ in.  
26/- each

No. 4.—Height 25 in., 4  
shelves, 9 in. by 3 in.,  
11 in. by 3½ in., 13 in.  
by 4 in., 16 in. by 4½ in.  
28/6 each



CARRIAGE EXTRA.

**W·H·CALNAN & CO LTD.**  
30-32 LUDGATE HILL, LONDON. E.C.4.

To Qualified Pharmacists only.

## How to add 5½d. to the profit on a bottle of hair lotion

Every week any pharmacist sells a number of hair preparations, many of them giving a very meagre return for his trouble.

A few explanatory words will often make a further and probably more profitable sale without prejudicing the one already made.

Suggest that if scurf or dandruff is present it is probably the root of the trouble, and that the effects of the lotion will probably be enhanced by the occasional use of a penetrating antiseptic shampoo.

# Germicidal Soap (McClintock)

is ideal for the purpose. It contains 2% of Mercuric Iodide, and its germicidal effect is increased by its combination with soap. The lather should be well rubbed into the scalp and allowed to remain on the hair for a few minutes before thoroughly rinsing.

**Minimum Retail Price - - - 1/3**

**Minimum Wholesale Price 9/7 net per doz.**

Germicidal Soap, McClintock, comes in Part II of the Poisons Schedule, so no signature is needed, only the addition of an address slip.

Germicidal Soap may also be confidently recommended for the destruction of parasites. Soldiers abroad found it unequalled for use against lice. Among its many other uses may be named the removal of odour due to excessive perspiration, protection against infection, the preparation of an antiseptic solution, etc.; and this quite apart from its routine use by doctors and nurses in surgical and obstetric work.

**Germicidal Soap, McClintock, is worthy of your attention.**



**PARKE, DAVIS & CO.**

**50-54, Beak Street, LONDON, W.1.**

**Laboratories - - Hounslow, Middlesex.**

# EDWARDS' HARLENE

## TOILET SPECIALITIES

### THE WORLD'S BEST

*Have you a Good Stock of "Harlene Hair Drill" Preparations?*



"HARLENE"  
FOR THE HAIR  
"UZON"  
BRILLIANTINE  
"CREMEX"  
SHAMPOO POWDERS  
"ASTOL"  
FOR GREY HAIR  
"ASTINE"  
VANISHING CREAM  
"ASTINE"  
TOOTH CREAM  
"ASTINE"  
SHAVING STICK  
"ASTINE"  
NAIL CREAM

*No Chemist or Store can afford to be without this unique line of Toilet Preparations*

It is most desirable in your own interest to carry a good stock of these preparations, as owing to the enormous demand created by a world-wide advertising campaign the number of customers is daily increasing. Do not put yourself in the unenviable position of turning money away.

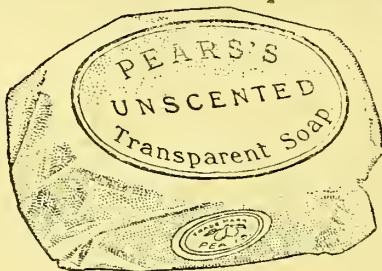
#### IMPORTANT NOTICE.

We are pleased to announce that, owing to the slight drop in cost of raw materials, we are now able to execute orders carriage paid on parcels of assorted goods to the value of £5 and upwards, net. Case charged 2s. 6d. extra, allowed for in full if returned, carriage paid, within 7 days.

***This Special Offer is Strictly Cash with Order.***

Free Cases are entirely discontinued. In no circumstances will carriage be paid on orders less than £30 where goods are charged to a/c. Every Chemist and Stores should avail themselves of this profitable £5 Carriage Paid Parcel Offer at once.

**EDWARDS' HARLENE, Ltd.** 20, 22, 24 & 26 Lamb's Conduit Street - - - LONDON, W.C.1.



*Pears' trade is growing every week; Pears' customers are increasing every day. Are you getting your share of this new business?*

*Pears*

A. & F. Pears, Ltd., 71-75, New Oxford Street, London, W.C. 1

### LINES THAT SHOW GOOD PROFITS.

Taylor's Cimolite Preparations.

50 YEARS' REPUTATION.



Of exquisite daintiness and purity. For many years extensively used by the highest families, both as Toilet and Nursery requisites, and supplied regularly to a wide clientèle of Royal and Noble families.

#### CIMOLITE TOILET POWDER.

Boxes, 1/1½ (per doz. 9/6)  
Tins, 3/-, 5/6, 11/- (per doz. 27/-, 49/3, 96/-)  
Bottles, 3/3, 6/6 (per doz. 30/-, 55/6)

#### CIMOLITE TOILET CREAM.

Collapse tubes, 1/3 (per doz. 11/6)

#### CIMOLITE SOAP.

Per tablet, 8d.; per box, 2/- (per doz. 3 tab. boxes, 20/-)

#### CIMOLITE FACE POWDER.

Boxes, 1/1½ (per doz. 9/6)  
Tins, 3/- (per doz. 27/-)  
Bottles, 3/3 (per doz. 30/-)

#### CIMOLITE SOAP (Violet-Scented)

Per tablet, 8d.; per box, 2/- (per doz. 3-tab. boxes, 20/-)

#### CIMOLITE SHAVING SOAP.

Sticks, 1/3 (per doz., 11/6)

SHOWCARDS and Counter bills on application.



Cimolite Preparations are stocked by all wholesale houses.

PREPARED ONLY BY

JOHN TAYLOR, Manufacturing Chemist,  
30 BAKER STREET, PORTMAN SQ., LONDON, W.1.

## All CHEMISTS and DRUGGISTS

will find it worth while to stock



## Rowlands' Macassar Oil

being on the P.A.T.A. List, cannot be sold under the advertised prices, viz.: 3/6, 7/- and 10/6 per bottle (Red or Golden), and therefore shows a fair margin of profit to the Retail Trade.

**A. ROWLAND & SON**  
112 Guilford St., LONDON, W.C.1

(Late of 67 Hatton Garden).

# “RIVERA”

VICTORY BOUQUET TOILET SOAP.



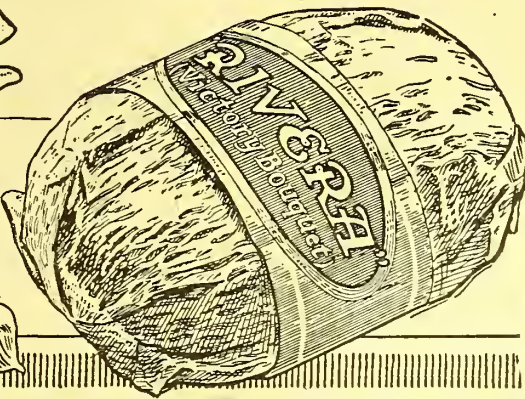
BEAUTY'S \_\_\_\_\_  
LEGITIMATE CLAIM

*THE SOAP THAT COM-  
PLETES EVERYBODY'S  
HOLIDAY BAGGAGE*

Every Tablet of “Rivera” Soap sold  
pleases a customer.

**Wholesale**  
**60/-** per gross tablets.  
(12 tab. boxes).  
Usual Terms.

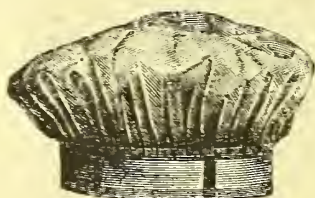
**Retail**  
**7d.** per tablet.  
Attractive  
Showcards.



If you do not stock it, send a Trial Order without delay.

**EDWARD COOK & CO., LTD., Soap Specialists,**  
**BOW, LONDON, E. 3.**



**"MASTER"****BRAND**

W 33

*Manufactures carry an unreserved guarantee as to Material and excellence in Workmanship.*

Our Season's Novelties comprise a large assortment of most attractive

**BATHING CAPS,**

both as to design and colour blends, in pure rubber, fancy proofs, and oil silks.

**SPONGE BAGS OF ALL KINDS, AND GENERAL WATERPROOF TOILET REQUISITES.****"FATHER NEPTUNE" SAFE FLOATS WITH THE "SAFETY BAND."**

Our facilities for the production of these goods are such that we confidently invite the patronage of all requiring high-class goods and competitive values.

*Samples and rates by return.*

*Correspondence in all current languages.*

**F. SCHUTZE & CO., Ltd.,** *Manufacturers of Druggists' Sundries,*  
BLACK BULL WORKS, CALEDONIAN MARKET, LONDON, N.7

**SPONGE BAGS, Etc.**

No. 978. SPONGE BAGS—

	Sizes	1	2	3	4	5	6
Check sheeting, good quality	per doz.	6/-	7/6	9/-	11/-	13/6	16/-
„ „ super best	„	8/-	9/6	11/-	13/-	15/6	18/6
The "Climax," proofed both sides	„	10/6	12/6	14/6	17/-	21/-	25/-
Fancy proofings, assorted colours	„	11/6	14/-	16/-	19/-	22/-	26/-

**BATHING CAPS, Etc.**

No. 976. BATHING CAP, circular shape, check sheeting, Sizes 1 2 3 4  
bound, per doz. 7/6, 8/6, 11/-, 13/-  
Per doz.

„ 428	„	helmet shape, red rubber, lined band, 6 sizes	- 21/-
„	„	do., plain rubber, assorted colours, medium	- 14/-
„	„	do., do., light substance	- 8/6
„ 1614	„	red rubber, with chin strap for water polo, 3 sizes,	42/-
„	„	SPECIAL LINE, finest para rubber, assorted colours and shapes, decorated with rosettes, frills, bows, etc.	- 22/-

WATER-WINGS, full size, assorted colours, best quality - - - per doz. 18/-

A discount of 5% for prompt cash is allowed on all amounts of 10/- and upwards. Money returned if goods are not satisfactory. Now ready, our latest illustrated PRICE LIST, post free for the asking.

**BURGE, WARREN & RIDGLEY, Ltd.**

91 &amp; 92 GREAT SAFFRON HILL, LONDON, E.C.1.

# SILKUM

Restricted transport means more walking and an increased demand for Corn remedies. This window has already sold grosses and grosses of Silkum, and the cards illustrated are only a part of what we send you with an order for a gross or more.

Silkum is one of our most successful lines—a plaster on silk with adhesive discs to hold it in position. Some chemists pay their rent out of Silkum alone, why not YOU?



## 100% Profit for YOU.

In a 5-gross lot, Silkum costs 45/- per gross or 3<sup>3</sup>/<sub>4</sub>d. per packet. A packet sells for 7<sup>1</sup>/<sub>2</sub>d. Your profit on this quantity is £11 5s.

1 gross at 48/-

## Make a Display NOW !

"Moorland Pharmacy Service."

**W.B. CARTER & WRIGHT LTD.**  
**RAWDON** **LEEDS**

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*New Zealand.*  
 161, HEREFORD ST. CHRISTCHURCH.  
 CORNER ALBERT & DURHAM ST. AUCKLAND.

"Moorland Pharmacy Service."

# APENTA

*The Best Natural Aperient Water.*

**For the Treatment of  
Biliousness, Hepatic Disorders, Gouty Conditions,  
and Habitual Constipation.**

*Minimum* Retail Prices : 2/6, 2/-, 1/-      *To the* Retailer : Doz., 24/-, 18/-, 9/-

# APENTA

*Write for Particulars.*

The APOLLINARIS Company, Ltd., 4 Stratford Place, London, W.1.

“John



Bull”

(REGD.)

## MALT EXTRACT

and

Malt Extract and Cod Liver Oil

**IS THE BEST!!**

Supplied in Bulk, Jars, Cardboard Containers, &c.

MALT EXTRACT POWDER. MALT FLOUR, specially manufactured for INFANTS' and INVALIDS' FOODS.

**PAINE & CO. LTD., ST. NEOTS, HUNTS.**

SIZE, 10-oz. FLUID.



RETAIL PRICE  
2/- each.

**NOW AVAILABLE.****“Vēvax” Liquid Dog Soap.**

Sure destroyer of Vermin and preventative  
of parasitic Skin Diseases.

A suitable Shampoo for all classes of Dogs.

**WHOLESALE TERMS.****14/9 Dozen Tins.**

SUBJECT 5% MONTHLY ACCOUNT

We will supply 1 DOZEN 2/- TINS FREE with 1 gross  
lots in **ONE DELIVERY.** Carriage paid. This bonus holds  
good for a limited period only.

*We can now deliver promptly from stock, and we take this  
opportunity of apologising to many valued Customers we un-  
fortunately disappointed—through no fault of our own—during  
the period when adequate supplies of raw material were not  
forthcoming to meet the demand.*

**R. J. REUTER,** 69 CARTER LANE,  
LONDON, E.C.4.

HARMLESS & CONVENIENT FOR USE

**HUDSON'S**  
**VEGETABLE**  
(PATENT)  
**LEAFLETS**

FOR PRODUCING  
RICH RUBY LIPS & ROSY CHEEKS  
WILL WASH OFF BUT NOT RUB OFF

## HUDSON'S Vegetable Leaflets

Wholesale, 45/- per gross, subject.

Protected Retail Price, 6d. each.

WRITE FOR PARTICULARS OF

**Special Bonus Scheme**

FOR WINDOW DISPLAY

TO WHOLESALE DEPOT—

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## WE ARE EXHIBITING AT CHEMISTS' EXHIBITION



## NEW ADDRESS:

The growth of the San-a-gen business has necessitated the removal to larger premises (see below).

SANAGEN CO., LTD., has also recently added to its sale of "San-a-gen" Nerve Tonic Food that of six other specialities, making what will now be known as

### THE "SAN-A-GEN" SEVEN

as follow :

1. SAN-A-GEN Nerve Food—  
In Tins, 4-oz. 3/- ; 8-oz. 5/-  
Also in 1-lb. Tins at 9/6
2. SAN-A-GEN Dietetic Biscuits—  
TONIC DIGESTIVE. No. 1 Tins (about 1-lb.) 2 6  
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& ANTI-OBESITY } No. 2 Tins (about 2-lb.) 8/-
3. SAN-A-GEN Soluble Aspirin—  
In Sealed Bottles of 36 Tablets, 2/-
4. SAN-A-GEN Digestoids—  
In Sealed Bottles of 36 Tablets, 2/-
5. SAN-A-GEN Nasoids—  
In Sealed Bottles of 50 Nasoids, 2/-
6. SAN-A-GEN Formalems—  
In Sealed Bottles of 50 Formalems, 2/-
7. SAN-A-GEN Notan Tea Tablets—  
In Tins of 100 Tablets, 2/-

All these Specialities are of the "San-a-gen" Superior Standard, and can be

### SUPPLIED BY ALL WHOLESALERS

Or, in case of difficulty, write to—

## SANAGEN CO., LTD.

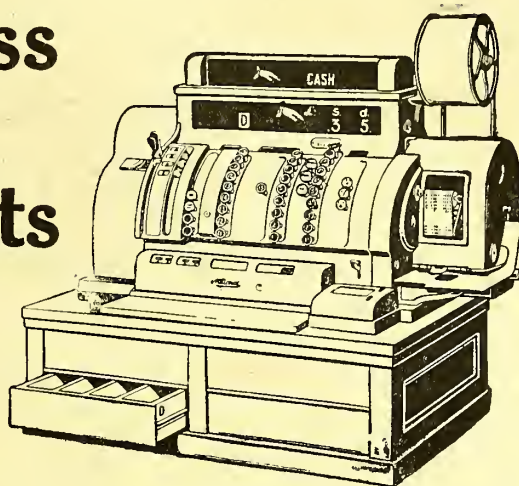
8a KENNINGTON PARK ROAD, KENNINGTON, LONDON, S.E. 11.

Telephones :  
Latchmere 4305.

Telegrams :  
"Phosaglyc, Battsquare, London."

# Better Business and Bigger Net Profits

could be enjoyed by many Chemists if they used improved shop methods that would increase economy and protection, and attract new trade.



Latest Model  
NATIONAL CASH REGISTER.

An up-to-date

## NATIONAL CASH REGISTER

is the best asset a modern Chemist can have.

It classifies and adds all transactions. Separately totals each assistant's takings. Stops disputes, mistakes and losses. Instantly provides important private information giving proprietor complete control.

Enforces maximum protection on the takings. Effectively advertises the business. Pleases customers and attracts new ones. Simplifies the handling of the business, with less worry, work and expense.

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Branch Offices in all large Towns.

The N.C.R. Co., Ltd.,  
225 Tottenham Court Rd.,  
London, W. 1.

**COUPON.**

Please send me without charge or obligation further details of modern National Cash Register equipment.

Name.....

Address.....

C. & D.

## POWELL'S THERMOMETER CO.

Supply Thermometers of **their own manufacture only**. They do not handle those of German make.



**DON'T** forget that the N.P.L. testing has not made all Clinical Thermometers equal—and that Powell's Thermometer Co. are the Sole Makers of those two pre-eminent varieties, the "Double-Easy" and the "V.O.S."

*Also makers of Chemical, Dairy, Bath, Brewers', Incubator and other Thermometers, as well as HYDROMETERS for all gravities.*

**55 HATTON GARDEN, LONDON, E.C. 1.**

ORION  
★  
★ ★ ★  
★  
BRAND

# SACCHARIN

**550**  
STRENGTH

Acetanilid	Heliotropin	Salicylate of Sod.
Amidopyrin	Nerolin	Salicylic Acid
Aspirin	Phenacetin	Salol
Caffeine	Phenazone	Terpineol
Citronellol	Potass. Per-	Thymol
Coumarin	manganate	Vanillin

Sole Importers:

**LINTON, HUBBARD & ANDREW, 72-75 Fenchurch Street, LONDON, E.C. 3.**

Telephone: 1892 Avenue. ABC and Lieber's Codes. Cables and Telegrams: "Linteolo London."

**ART OF DISPENSING.** (9th Edit.) 8/-, by post 8/9.

**VETERINARY COUNTER PRACTICE.**

7/6, by post 8/3.

**CHEMIST'S DICTIONARY OF MEDICAL TERMS.**

3/6, by post 3/10.

*The CHEMIST & DRUGGIST, 42 Cannon Street, E.C.4*

## 500 CASH TILLS FOR SALE

Richly french-polished cases, large cash capacity, alarm bell. Record rolls  $3\frac{1}{2}$ " wide.

£12 12s. model £4.4s. each. £6 6s. model £3.5s. each.

*Sent on approval, carriage paid.*

**VANGUARD CO., 3 Aubert Park, Highbury, London, N.5.**

## Rebuilt National Cash Registers



**WE** often take back used Cash Registers in cases where customers are installing larger or more up-to-date machines. These used National Cash Registers

### Thoroughly Overhauled and Rebuilt

are sold under the Company's full guarantee at reduced prices.

*Write for details of "Nationals" available, Dept. R.1, The National Cash Register Co., Ltd., 225 Tottenham Court Road, London, W.1.*

## PUSHFUL CHEMISTS

Who are desirous of making a

**PROFIT of 48 PER CENT.**

on a quick-selling proprietary article are invited to write to—

**The SPA TOILET CO.**

(Branch of the County Chemical Co.)

**LEAMINGTON SPA**

**FOR FULL PARTICULARS.**

We select one Chemist for one town or district of large town. *Write us TO-DAY.*

## Increasing Demand for **JAPLIN'S** Anti-Rheumatic **SOAP**

**SPECIAL  
OFFER.**

Chemists can be supplied with sufficient quantity packed in artistic boxes, for window display purposes,

**on SALE or RETURN**

A fee will be allowed to Chemists who give good display. Full particulars from—

**Japlin's Anti-Rheumatic Soap Ltd.,**  
2 & 4 Tudor Street, London, E.C.4.

Write to us **TO-DAY**  
for Particulars of the

# 1921 "Montserrat"

Lime Fruit Juice and "IMPERIAL" BRAND

## Window Display Competition

OVER 20 PRIZES

NO BLANKS

NOTE OUR PRICE:

"Montserrat" Cordial (Limetta) **20/6**  
"Imperial" Lemon Squash Per doz.

For 6 dozen quarts or 12 dozen pints and over, which can be assorted.  
2½% monthly. Carriage Paid.

Then there is our  
**SPECIAL BONUS OFFER!**

With all orders received on or before **JUNE 30th** for 12 dozen quarts, or equivalent, "Montserrat" Lime Fruit Juice Preparations, which can be assorted and include "Imperial" Lemon Squash we will send as a bonus, free of charge, 1 dozen quarts "Montserrat" Cordial or "Imperial" Lemon Squash.

On no account will this bonus be allowed for quantities less than 12 dozen, and in cases where customers wish an order of 12 dozen to be executed in two deliveries, the bonus will be sent with the second delivery, if taken before September 30th.

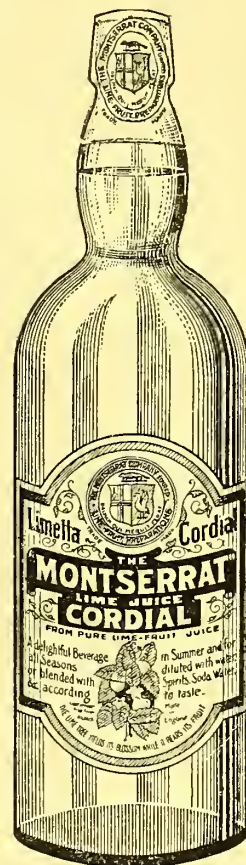
Goods will be invoiced at prices ruling at date of delivery.

SOLE CONSIGNEES:

**EVANS SONS LESCHER & WEBB LIMITED**

56 Hanover Street  
LIVERPOOL

60 Bartholomew Close  
LONDON, E.C.1



**YOUR** Window is  
one of your best  
friends; dress  
him properly and  
neatly and his  
invitation to the  
passers-by is  
irresistible!

The most eminent Physicians and Surgeons  
prescribe "OPPENHEIMER" products  
because of their reliability.

## "BI-PALATINOIDS"

OF NASCENT

FERROUS CARBONATE (No. 500)

*The Standard Hæmatinic.*

*NO Chemist can afford to be without them.*

*Medical men agree  
that there is no more  
valuable Tonic Food.*

# "ROBOLEINE"

*Children agree  
that there is  
none so palatable.*

The Chemist who doesn't maintain his  
stock of "Roboleine" makes a mistake.  
P.A.T.A. PRICES SHOW YOU A HANDSOME PROFIT.  
Write for Special WINDOW DISPLAY Terms giving  
you a Profit of **50 %** on your outlay.

## "MAGLACTIS"

"The Cream of Magnesia."—*Lancet.*

**Neutralises Stomachic Acidity without Evolution of Gas.**

P.A.T.A. Terms yield you a Profit of 35 % on your  
outlay, and Special WINDOW SHOW Terms **45 %**

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## OPPENHEIMER, SON & CO., LTD.

179 Queen Victoria Street, LONDON, E.C.4.

*Entirely British House since Foundation in 1891.*

# Why you should sell

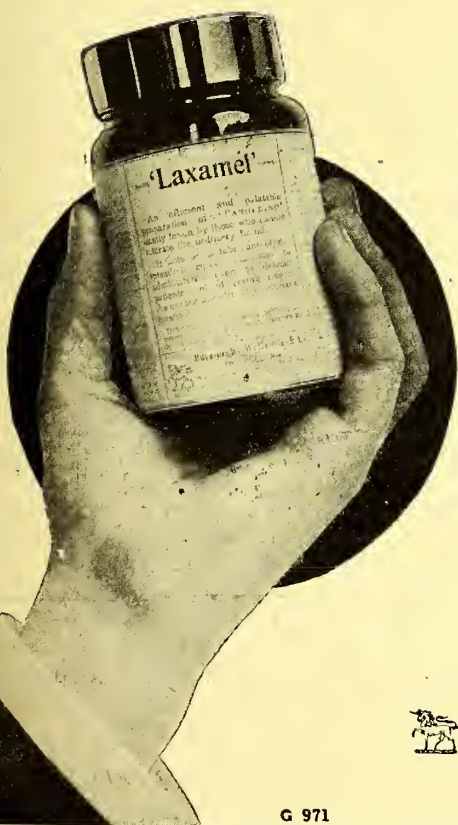
## TRADE 'LAXAMEL' MARK

### The Palatable Laxative

'LAXAMEL' is so pleasant, both in taste and appearance, that even the most fastidious take it willingly.

Is certain yet gentle in its action.

Contains approximately 80% 'Paroleine,' an exceptionally refined liquid paraffin.



You can always give it your unreserved recommendation with the certainty that it will please your customers.

The profit is excellent. 'LAXAMEL' is issued in large glass jars at 24/- per doz. (subject).

*Why not make a counter display?*



BURROUGHS WELLCOME & CO., LONDON  
NEW YORK MONTREAL SYDNEY CAPE TOWN  
MILAN SHANGHAI BUENOS AIRES BOMBAY

# SOAPS OF DISTINCTION SOAP BATHLETS

in the following varieties:

Boracic	Buttermilk	Monster size 9/- per doz.
Eau de Cologne	Lavender	Medium „ 5/6 „ „
Lily of the Valley	Oatmeal	Small „ 3/- „ „
Parma Violet	Verbena	

Arthur H Cox & Co Ltd Manufacturing Chemists Est 1859 Brighton

The *Lancet* describes it as

“Mr. Benger's admirable preparation.”

**FOOD FOR INFANTS**



Wholesale of all Wholesale Houses and Shippers or from the Manufacturers

**BENGER'S FOOD LTD., Otter Works, MANCHESTER, Eng.**

Branch Offices at: 117 Pitt St., Sydney, Australia; 90 Beekman St., New York, U.S.A.  
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SHOWCARDS AND HANDBILLS ON APPLICATION.

The *British Medical Journal* says:

“Benger's Food has by its excellence established a reputation of its own.”

**INVALIDS AND THE AGED.**



## PEDESTALS

This is a new invention. These pedestals are as strong, serviceable, and look like wood, whilst they are the last word in good taste. They fold up flat, and when not in use occupy a minimum of space. The trial parcel—to introduce them—will enable you, with your usual background, to show the public the

“smartest window in the street.”

If you wanted them in wood they would cost you a great deal more and look no better. At short range no one will distinguish them from the finest oak, whilst the price puts them within the reach of the most careful.

The Veneered series are:—

PALE OAK.

FUMED OAK.

DARK OAK.

PRICES:

7-inch.	9-inch.	12-inch.	15-inch.	18-inch.	30-inch.
1/- ea.	1/6 ea.	2/- ea.	2/6 ea.	3/6 ea.	6/- ea.

To those who send in a postcard with “Pedestal” thereon and sign their name and give address we will send them for

**20/- THE SET**

5 × 7" @ 1/- each  
4 × 9" @ 1/6 each  
2 × 12" @ 2/- each  
2 × 15" @ 2/6 each

Carriage Paid.

State whether ‘pale,’ ‘fumed’ or ‘dark oak’ is required. Don't forget “Pedestal” on a postcard is the word and it brings you the best bargain in show stands you have ever had in your business career.

THOS. CHRISTY  
& COMPANY  
4-12 Old Swan Lane  
LONDON, E.C.4

TO ORDER.

Put “PEDESTAL” on a p/c—above, and state colour required, and we will send this splendid parcel.

**20/-**

Carriage Paid—Home.  
Available from May 28—June 4, 1921



### A Weekly Journal of Pharmacy and of the Chemical and Drug Trades

THE CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official organ of the Pharmaceutical Society of Ireland, the Chemists' and Druggists' Society of Ireland, and of other Chemists' Societies in the Overseas Dominions.

#### Subscription Rate.

TWENTY SHILLINGS a year payable in advance to any part of the world, including a copy of *The Chemist and Druggist Diary*. Subscriptions may begin with the first issue of any month. Single Copy 9d. post free; *Diary*, ros. post free. Postal orders and cheques should be crossed "Bank of Liverpool and Martins Ltd." Prix de l'abonnement annuel: le journal une fois par semaine, et l'a., enda une fois par an, 20s., franco.

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#### A NOS LECTEURS FRANÇAIS.

Les événements internationaux des sept dernières années ont servi à consolider d'une manière définitive l'union commerciale entre la France et Angleterre. Les acheteurs de la Grande Bretagne sont désireux d'acheter pour leur usage personnel ou pour les revendre des marchandises de toute espèce de fabrication française, tandis que, de leur côté, les fabricants britanniques cherchent à vendre leurs produits en France et dans les colonies françaises.

Les dernières statistiques officielles parues démontrent que les importations de produits chimiques du Royaume Uni en France se montent à 545,006,900 kilogrammes, représentant une valeur de 467,222,000 francs. D'autre part les exportations de la France dans le Royaume Uni ont fourni un total de 722,517,100 kilogrammes d'une valeur de 872,594,000 francs. Pendant la même période la France a exporté des herbes médicinales et des médicaments pour un montant de 55,147,000 francs, auquel il faut ajouter 26,675,900 kilogrammes de parfumerie et des savons de toilette d'une valeur de 285,297,000 francs. Les statistiques commerciales françaises pour le commerce d'outremer pour le premier trimestre de l'année en cours indiquent une augmentation remarquable des exportations dans ce pays et des perspectives qui paraissent presque sans limites.

THE CHEMIST AND DRUGGIST a toujours eu pour but d'aider et faciliter le développement du commerce Anglo-Français et la France est bien située pour fournir à la Grande Bretagne et aux Colonies Britanniques de nombreux produits chimiques de choix, des herbes médicinales, des drogues non préparées, ainsi que des huiles essentielles et fines et les matières premières pour la parfumerie, dont il existe un urgent besoin. Les articles de parfumerie et de toilette d'origine française ont conquis dans le monde entier une réputation de tout premier ordre pour leur distinction et leur bon goût, tandis que beaucoup de spécialités pharmaceutiques françaises sont capables de voir leur vente se développer sur les principaux marchés du monde.

Les éditions hebdomadaires de notre journal tiennent les acheteurs et les vendeurs de tous ces produits complètement renseignés sur les activités et les mouvements des marchés ayant trait aux commerces de la droguerie et des produits chimiques, aux branches qui s'y rattachent, ainsi qu'aux affaires pharmaceutiques en général.

## English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

#### Higher Postal Rates.

To meet an estimated deficit in the yield of the postal services, the following increases in the rates are to come in force on June 13:

#### Inland Postage Rates.

PRESENT RATE.	NEW RATE.
Postcards ... ..	1d.
Printed papers:—	
Up to 1 oz. ... ..	1d.
1 oz. to 2 oz. ... ..	1d.
For each additional 2 oz. ... ..	1d.
Registered letters ... ..	3d.

#### Foreign Postage Rates.

Letters:—	
Not over 1 oz. ... ..	2½d.
For each additional 1 oz. ... ..	1½d.
Postcards ... ..	1d.
Printed papers:—	
For every 2 oz. ... ..	1d.
Commercial papers:—	
For every 2 oz. ... ..	1d.
(minimum postage 2½d.)	(minimum postage 3d.)
Samples:—	
For every 2 oz. ... ..	1d.
(minimum postage 1d.)	(minimum postage 2d.)
Registered letters ... ..	3d.

#### British Empire and U.S.A.

Letters:—	
For 1 oz. ... ..	2d.
For each additional oz. ... ..	1d.

The rates for postcards, printed papers, etc., will be the same as for foreign countries.

It is also proposed to suspend the delivery of letters on Sunday in all parts of the country. London has never had a Sunday delivery, and other cities and country districts will now have to do without this postal convenience.

#### Chemical Society.

After disposing of the official business of the evening, an informal meeting of the Chemical Society was held on May 19, in the Society's rooms in Burlington House, Piccadilly, London, W. Dr. Pickard made a few interesting remarks, illustrated by actual samples, on a variety of clay found in North America. Three different samples were exhibited, having been obtained from seams of varying thickness. This clay exhibits the remarkable property of forming with water a colloidal solution, the greatest colloidal content in the clay being present in the variety taken from thin seams. On adding a trace of solution of caustic soda to a colloidal solution of this clay, it solidifies to a jelly. These properties distinguish it from the other known varieties of clay, and already various uses have been suggested, such as substituting starch for sizing in textiles, in paper manufacture, as a filling for soap, and also for medicinal purposes, for which it has already found use among the Indians. About 97 per cent. is soluble in water, forming a colloidal solution which passes through filter paper. It consists of 80 per cent. of anhydrous aluminium silicate, with 3 per cent. of insoluble matter, and traces of iron. The yellow colour of one of the samples shown was due to the presence of titanium.

#### Contracts.

The following Government contracts, among others, have been notified:

ADMIRALTY.—Brushes.—Titterton & Howard, Ltd. Carbon Tetrachloride.—Pyrene Co., Ltd. Calomel Cream.—Evans Sons Lescher & Webb, Ltd.

CROWN AGENTS FOR THE COLONIES.—Cotton-wool.—Vernon & Co., Ltd. Drugs.—Howards & Sons, Ltd. Novarsenobillon.—May & Baker, Ltd. Vaccine.—Parke, Davis & Co.

H.M. STATIONERY OFFICE.—Adhesive Linen Tape.—Samuel Jones & Co., Ltd.

G C

POST OFFICE.—*Methylated Spirit*.—H. Jones & Co.

WAR OFFICE.—*Carbon Tetrachloride*.—Webb Lamp Co., Ltd. *Cresote*.—Gas Light and Coke Co. *Linseed Oil*.—Younghusband, Barnes & Co. *Medicines*.—Burgoyne, Burdidges & Co., Ltd. *Methylated Spirit*.—Davis Bros., Ltd.

Eton Urban Council has accepted the tender of Mr. R. M. Williams, chemist and druggist, for drugs, etc.

The London Labour party has issued a circular letter to the Metropolitan public authorities stating that its attention has been drawn to the form of tender issued by some of the local authorities in London. It would appear to be the rule in some cases to stipulate for certain proprietary brands of goods. It is submitted in the letter that the practice is contrary to public policy, and is liable to have the effect of causing the ratepayers to pay unnecessarily high prices for certain goods purchased. The committee of the Labour party desires the favourable consideration by local authorities of the question of stipulating quality in tender-forms rather than proprietary brands, in order that the field of competition may be as wide as possible.

#### Poisonings.

The following cases of fatal poisoning have been recorded since our last report:

In Bloomsbury, London, Clementina Castelnovo, a cook, committed suicide by drinking spirit of salt.

In Streatham, S.W., Evelyn H. Jordan committed suicide by taking carbolic acid while of unsound mind.

At Goodinge Road, London, N., Elizabeth Charrott died from taking a corrosive poison, stated to be spirit of salt, in mistake for Glauber's salt.

At Hammersmith, W., Rosetta Simpson, a married woman, committed suicide by drinking a liquid understood to be spirit of salt while in a cinema. A "Temporary insanity" verdict was given at the inquest.

A verdict of "Suicide during temporary insanity" was recorded at an inquest held in Kensington, W., on the body of Percy Screach, or Graham, a clerk. A medical witness stated that death was due to poisoning by an overdose of Easton's syrup; the deceased had probably taken about 1 gr. of strychnine,  $\frac{1}{4}$  gr. being, in witness's opinion, a fatal dose.

#### Government's Early-closing Intentions.

A deputation from the Early Closing Association waited on the Home Secretary on May 23 in order to ask, on behalf of 745 urban district councils, chambers of commerce, and other institutions, that the present closing regulations might be kept in force until they are made permanent by further legislation. Mr. Shortt, in reply, said that there were two methods of attaining that object—one would be to include the Act of 1920 in the Expiring Laws Continuance Act; and the other would be to introduce a very short Bill, not more than one clause, simply repealing the limitation of time in the Act of 1920. He could promise that the Act of 1920 would not be allowed to expire without something being done. The best thing would be to leave the matter with Sir Kingsley Wood to consult with him as to what was the best method to adopt from a Parliamentary point of view; and he would undertake, on behalf of the Government, to do all they could to have the Act made permanent. Failing that, it would have to be continued under the Expiring Laws Continuance Act.

#### Birmingham.

The prices of tooth-brushes are being severely cut at a well-known drapery establishment.

The employees of Southall Bros. & Barclay, Ltd., have contributed 55*l.* to the Lord Mayor's Relief Fund.

Burns on the face and hands of a man taken to the General Hospital, on May 23, are stated to have been caused by the bottom of a tin containing acid giving way and the contents falling on him.

Birmingham University has obtained well over half of the 500,000*l.* required. Recent subscribers to the fund

include Alfred Bird & Sons, Ltd., Philip Harris & Co., Ltd., and Mr. Norman G. Blackwell (Blackwell, Hayes & Co., Ltd.).

The two hundred photographs at present on the walls of the Birmingham Art Gallery represent some of the excellent work performed under the auspices of the Warwickshire Photographic Survey. The exhibition remains open for three weeks.

Following the President's garden party (see p. 76), Mr. and Mrs. E. W. Mann are placing their house and grounds at the disposal of the Birmingham Pharmaceutical Association on June 1. The proceeds of the party will be handed over to the Pharmaceutical Society's Benevolent Fund.

Dr. Alfred Hill, formerly medical officer of health and public analyst for Birmingham, who now resides in the Isle of Wight, has just celebrated his ninety-fifth birthday by walking to a local welfare centre and making a speech. Dr. Hill obtained his M.R.C.S. Eng. qualification in 1850, and his M.D. degree at Aberdeen four years later.

The durability of English-made scientific glassware forms the subject of a recent letter to the Press from Mr. Seymour Pile (the Midland Laboratory Guild, Ltd.), who writes as follows: "Our experience in actual work in the laboratory is that the foreign ware breaks more easily not only over a Bunsen flame but also on a hot plate, and our loss of time owing to these breakages was such that it would pay us to use English glass even if the price were 50 per cent. higher than the foreign. It is fair to state that the foreign glass is neater in its appearance, as might be expected from their longer experience in manufacture, but the actual glass material is inferior to that made in England."

#### Leicester.

The sunny weather has created a boom in the photographic trade, and the "quick-developing service" has, at most pharmacies, had its capabilities fully tested.

The value of the city as a shopping centre is being appreciated by suburbanites now that the 3*d.* charabanc trip has taken the place of the former 1½*d.* tram ride.

Leicester had the honour of winning six prizes out of twelve in the Ucal window-dressing competition. Mr. Marfitt was successful in winning the cup and 25*l.*, and Mr. Williamson (Young & Sons) the second prize and 15*l.* Messrs. Barker, Clark, Martin, and Marfitt each secured a certificate of merit and a cheque.

#### Liverpool.

There are indications that a goodly number of Liverpool and district members of the British Pharmaceutical Conference intend to go to Scarborough next month.

The influx of American visitors for the amateur golf championship, the spell of splendid weather, and the feeling that the coal stoppage must soon collapse conduce to optimism.

Some impudent and threatening demands at pharmacies for methylated spirit by a man or men apparently bent on mischief have led to the invocation of the police and the issue of notices to refuse sales and report when danger is suspected.

A suburban pharmacist's errand-boy, who took French leave on Whit-Tuesday instead of asking for an extra day found himself displaced on his return on the following day. Labour is more plentiful again, although the unemployment dole tends to widespread idleness.

#### Manchester.

Mr. John Cleworth, pharmacist and photographer, who has been confined to bed all Whit-week with lung-trouble (with a very high temperature), is now convalescent and back again at business.

Several of the Manchester golfing pharmacists have been putting in a good deal of practice during the Whit-week holidays, and may be looked upon as more worthy opponents in the next tournament. There is a rumor that Manchester pharmacists may challenge their Liverpool confères in golf before long.

## Miscellaneous.

**B.D.H. CRICKET CLUB.**—The British Drug Houses Cricket Club played their opening match at Acton, on May 21, their opponents being the Tudor Athletic Club. The scores were: B.D.H., 209 for nine wickets; Tudor, 65. For the winners S. Lohe and G. A. Frith made 80 and 64 runs respectively.

**ACID IN STREET.**—A motor-lorry belonging to Spencer, Chapman & Messel, Ltd., chemical manufacturers, Mark Lane, London, E.C. 3, while conveying carboys of sulphuric acid along the Chelsea Embankment, S.W., on May 24, crashed into a tree. A number of carboys were smashed, and the driver and two boys who were riding on the lorry were burned by the acid.

**FIRES.**—A light thrown down in the street caused an outbreak of fire, lately, on the premises of Needhams, Ltd., chemists, Newington Butts, London, S.E. 11. The damage was not extensive.—The premises of the British Surgical and Drug Co., Ltd., Fulwood Place, London, W.C. 1, were recently the scene of a small outbreak, which was confined to the ground floor.

**OFFICIAL DEFINITION OF "LEAD COMPOUND."**—The Home Secretary has given notice of three orders proposed to be made under the Women and Young Persons (Employment in Lead Processes) Act, 1920. One of the three is officially described as "declaring what is a lead compound for the purposes of the Act and prescribing the method of ascertaining whether any compound is a lead compound within the definition." It is stated in the current issue of "The Labour Gazette" that "the provisions of the Act apply to processes involving the use of 'lead compounds,' as determined in this way, and also of any mixture containing such a compound, but not of any alloy containing lead."

**INCREASED SPIRIT DUTIES IN GUERNSEY.**—In the course of a recent discussion in the Guernsey States on a proposal (which was eventually carried) to increase, *inter alia*, the duty on spirits, the President said that he had received a communication from the chemists' section of the chamber of commerce asking for their old privilege in respect of alcohol for use in perfumes. Mr. C. Stonelake, chemist and druggist, explained that in England all alcohol used in medicines or prescriptions was subject to a rebate, but said they did not ask as much as that: what they wanted free of duty was the bottled preparations which were imported. The Controller proposed an amendment exempting chloroform, ether, tinctures, infusions, and other medicinal preparations, and this was carried by thirty votes to seventeen.

**IN THE COURTS.**—At Brentford Police Court, on May 19, William Stanton (56) was remanded on a charge of stealing a horse and van valued at 86*l*. The accused had been found, the previous morning, on the roof of the Isleworth works of A. & F. Pears, Ltd., and explained his presence there by a lengthy story of pursuit by "the boys."—At Croydon Police Court, on May 24, Edmund Veness (37), Lamb's Conduit Street, W.C. 1, described as a chemist's assistant, was remanded on a charge of attempting to obtain 100*l*. by false pretences from Mr. C. H. C. Hall, Croydon. The accused pleaded "Guilty," but denied having asked for money.—At Bolton, on May 24, John A. Thornley, who was sentenced to two terms of imprisonment and was fined on charges of obtaining goods by false pretences, attributed his downfall to laudanum-drinking.

## Irish News.

## Brevities.

Mr. J. Martin Poots, M.P.S.I., Newtownards, recently instituted a "lucky purchase" scheme to advertise his business.

Sligo Guardians have appointed Mr. Fagan, Dublin, as analyst, at a salary of 18*l*. per year.—Corofin Guardians have appointed Mr. D. J. O'Mahoney, Cork, as analyst.

The Local Government Board has intimated to the Castleblayney Guardians that their failure to enter into a contract for the supply of medicines and appliances will mean that recoupment cannot be allowed. The clerk said that Boileau & Boyd, Ltd., wrote regarding the a contract for the supply of medicines and appliances waiting to hear from the county council, which authority advised the Guardians not to enter into any contract until they had heard from them. They had now heard from that body on two occasions, but nothing had been settled. Therefore he had nothing to put before them that day. He noticed the Dundalk Guardians accepted tenders and did not wait any longer. The matter was again adjourned for a fortnight.

## Belfast.

At the recent examinations of the Conjoint Board of Ireland, Mr. T. J. Kerr, R.D., Divis Street, was successful in the final and Mr. J. Unsworth, R.D., Cliftonville Road, in the second professional examination.

At the Recorder's Court, recently, Edward Kelly, Ph.C., Falls Road, claimed 95*l*. for damage to stock during the riots last year. Before the applicant had been cross-examined a settlement was arrived at, 60*l*. being awarded.

## Scottish News.

## Brevities.

Duns town council has recently granted licences for the sale of agricultural and horticultural poisons to the following applicants: Messrs. H. Rae, T. Stephenson, and Hogg & Wood.

A paper on "Some Glasgow Lichens," giving the structure, classification, occurrence and dyeing properties, was read by Mr. E. J. A. Stewart, M.A., B.Sc., at a recent meeting of the Andersonian Naturalists' Society in Glasgow.

Mr. G. Forbes Johnston, chemist and druggist, Broughty Ferry, has installed, under the style of Forbest, Ltd., an extensive photographic establishment on a site near his pharmacy. Provision is made for the development of up to 1,000 photographic spoils per day, and the subsequent processes of drying, printing, and finishing are performed by electrical equipment. Every print passes through the hands of a professional retoucher before being despatched.

## Edinburgh.

One of the minor results of the coal shortage is the frequency of requests for something for a poisoned finger or hand, occasioned by a splinter of wood.

A correspondent sends us the following record of his forenoon "disturbances" on May 24: Ergotin pills, a request to purchase some old bottles, a photographic film, a prescription (two days old) for a cooling mixture, and an Insurance script. The customers experienced no difficulty in finding his establishment.

The Edinburgh Chemists', Assistants', and Apprentices' Association held the competitive examination in prescription reading and practical pharmacy for the Dr. John Cumming prize (open to all apprentice and undergraduate members of the Association), on May 18, with the following results: (1) Miss Margaret Smith (Mr. Peter Boa, Ph.C., Morningside Drive); (2) Miss J. M. Findlater (Mr. R. L. Munnoch, Polwarth Gardens). The second prize was given by Mr. H. W. Blair, President of the Association.

Following the interview with Councillor Philips Smith and the discussion of a memorandum from Mr. K. J. C. McLennan, secretary of the local branch of the Scottish Pharmaceutical Federation, concerning the dispensing of medicines after closing hours (*C. & D.*, May 21, p. 35), the Public Health Committee has agreed to receive a deputation of chemists on the subject. Numerous letters are still appearing in the local Press. "Thirty-five Years a Chemist" suggests that if the correspondents purchased a few more of their medicines from the pharmacist instead of the grocer they would know where to find the former's premises in a case of emergency.

## French News.

(From the "C. & D." Paris Correspondent.)

M. C. LÉGER announces that the synthesis of the alkaloids of cinchona, and of quinine in particular, is likely soon to be accomplished.

THE FRENCH PHARMACISTS' LEAGUE has recently been formed to assure the enforcement of legal measures which guarantee to the pharmacist the monopoly of his profession. The chairman is M. Barguillet, pharmacist at Choisy-le-Roi (a suburb of Paris) and the official headquarters at 65 Rue Pascal, Paris.

SPÄHLINGER'S TREATMENT FOR CONSUMPTION.—Professor D'Arsonval read a paper to the Academy of Sciences recently on "Spählinger's Method for the Treatment of Pulmonary Tuberculosis" (*C. & D.*, May 7, p. 54), of which the first clinical results were laid before the Academy of Medicine just before the war by Professor Letulle.

M. PAUL FREHAULT, a Toulouse pharmacist, ex-Inspector of Pharmacies and ex-municipal councillor, pleaded guilty recently before the local police court to selling cocaine without a prescription to a lady who seems to have disposed of it at a handsome profit to a female friend. He was sentenced to twenty months' imprisonment and a fine of ten thousand francs, his client to eight months' imprisonment.

SOME FIFTY STUDENTS, employees of Parisian drug firms, attend the lectures on Tuesday and Friday evenings at the premises of the Paris Wholesale Druggists' Association. The pupils are provided with samples of drugs, and the teacher indicates the characteristics, in addition to giving information as to origin, collection, or cultivation, use, and toxicity. The subject is treated in a more exhaustive manner on Saturday afternoons.

DETECTION OF PHENOL.—M. Rodillon, to detect the presence of phenol, adds to 10 cc. of the liquid one drop of nitrite of sodium, 10 per cent., aqueous solution. After mixing, a few c.c. of pure sulphuric acid is added. A ring becomes visible at the point of contact if phenol is present, and the upper half is red, the lower green. If the liquid to be examined contains organic matter, which is coloured by contact with sulphuric acid, the phenol should first be isolated by the usual methods.

THE INSTITUT DU RADIUM, which was constructed by the University of Paris in 1914, is a little white villa surrounded by a garden, situated on the Mont St. Geneviève. The staff of Madame Curie comprises the laboratory director, M. Debierne, the preparator, M. Hollebecque, some fifteen students (including a few foreigners), and Mademoiselle Irène Curie. This, the savant's eldest daughter, is now a licentiate of physical science and shares her mother's work. The younger, Eve, recently passed the first part of the B.A. examination.

THE FRENCH CHAMBER OF COMMERCE at Madrid reports on the efforts made by Spain, since the outbreak of the war, to satisfy her needs in proprietary medicaments. Spanish doctors, it is stated, in certain centres have bound themselves to prescribe, wherever possible, only Spanish products. French firms have tried to induce Spanish clients to buy in pesetas, the consequence being that the Spaniard, where possible, gets a French commission agent to purchase in francs and forward to him direct. The Spanish market before the war was most important, and the wealth of the country has now considerably increased. Such an outlet for French exports, the report suggests, should not be neglected.

PHARMACIST POLITICIANS.—Writing on the part played in politics by pharmacists, Prof. Perrot points out that M. Villejean (for thirty-five years head pharmacist at the Hôtel Dieu Hospital) sat for a short period in the Chamber of Deputies. Prof. Bourgoin represented the Ardennes department in the French Parliament, and might have made his mark but for his premature death. The efforts made by Senator Astier, who made a fortune

from successful proprietary articles, founded the "Office of Chemical and Pharmaceutical Products" in the early days of the war. M. Morel, Senator for the Loire, was Minister of Colonies in 1912-13; while M. Limouzain-Laplanche represents the Charente. The fickleness of the ballot-box has deprived our Legislature of Prof. Cazeneuve, Lyons, whose frequent Parliamentary speeches on scientific and hygienic questions were remarkable. Prof. Vincent, Dijon, has introduced a Pharmacy Bill, which still awaits discussion.

EARLY PHARMACEUTICAL ADVERTISING.—M. Charles Bureau, of Berck-Plage, has offered to the Society of History of Pharmacy a printed prospectus of Louis XVI's time, issued by a M. Clément, who was at that epoch commencing business as a *marchand apothicaire et droguiste* at Avesnes le Comte (Pas-de-Calais). This enterprising pharmacist announces "he has the infallible secret of curing all fevers. He sells a syrup to purge young children suffering from stomach-ache," and has "a remedy for all sorts of the most inveterate skin diseases, and other remedies too numerous to mention." He deals likewise in veterinary medicines, and has a vermin-killer "approved by many farmers." He assures the public that he sells "much cheaper than in the cities, that his drugs are good and fresh, and preferable to those stocked for fifteen and twenty years and more in the shops." He offers "tea, coffee, aniseed-tablets, aniseed and caraway liqueurs, powder, perfumes, pomade (liquid and in sticks), perfumed water of every kind, and other things not herein specified."

THE BULLETIN of the Parisian Retail Chemists' Association (*Chambre Syndicale des Pharmaciens de la Seine*) publishes a list of suggested additions and alterations for the guidance of the revisers of the Codex, which include a list of the laboratory plant necessary for the testing of Codex medicaments and a list of the apparatus required by pharmacists authorised to train apprentices (*"stagiaires"*). It is suggested also that the present alphabetical arrangement of items is unsatisfactory. The old idea of classification under headings "*Materia Medica*," "*Galenicals*," etc., was preferable. A "*General Table*" embracing all the medicaments still legal (*i.e.*, those which have figured in the last three editions of the Codex) is desirable. The Codex, in its general style of editing, should retain its character as a work of higher education. In the physical and chemical characteristics of each liquid, the number of drops equal to one gramme should be given; in the case of solids, the degree of resistance of their solutions at different sterilising temperatures. The tests quoted should be as numerous as possible. The table of maximum doses should be retained, but each dose should also appear at the foot of the individual monograph in the body of the work.

THE INTERNAT CENTENARY "SOUVENIR."—The volume published in commemoration of the recent centenary of the Internat (*C. & D.*, I., 1920, p. 674) by Professor Goris which may be considered as a standard work of reference on this institution, runs to a thousand pages. Of these, some 400 are occupied by a list of the scientific publications, etc., of ex-internes, accompanied by brief biographies, and another 200 by *résumés* of the work classified under the various headings of botany, materia medica, biological, vegetable, and alimentary chemistry, toxicology, etc. A brief sketch of the history of each Paris hospital, with a chronological list of its head pharmacists, is included. There is also a Roll of Honour of the late war and a list of internes who have achieved academical or other distinction. Prof. Perrot contributed a note on ex-internes in the modern political world. Prof. Goris briefly sketches the rise of modern "Commercial and Manufacturing Pharmacy," and gives a pen picture of an internes' dinner in the "*Salle de Garde*." Poetry is represented by "Pascalon's" rhymed toast for the centenary dinner; Art by Professor Grimbert's charming water-colour sketch of the laboratory at the Pharmacie Centrale des Hôpitaux; and there are numerous illustrations of Parisian hospitals in ancient and modern times.



## Legal Report.

**Deficient Calomel Ointment.**—At Bow Street Police Court, London, on May 19, Frank Thomas (trading as H. Thomas & Co., perfumers), 18 Tower Street, W.C. 2, and Robert Saxby, chemist and druggist, his assistant, were summoned for having sold 33 per cent. calomel ointment which was deficient in calomel to the extent of 64.7 per cent. Mr. Hawkes, prosecuting, said that an inspector of the Holborn Borough Council asked at the shop for 1 oz. of 33 per cent. calomel ointment, for which he paid 2s. 6d. On analysis it was found to be composed of 11.62 per cent. calomel and 88.38 per cent. benzoated lard. As 33 per cent. calomel ointment was only used for a specific purpose, the deficiency of calomel might be of serious importance. The solicitor for the defendants said that Mr. Thomas had carried on the business with his mother for many years. Mr. Saxby, who executed the order, had been with the firm for forty-one years. The order was not signed by a medical man, or Mr. Saxby would have executed it to the letter; but, having regard to the formula of the British Pharmacopœia, he considered 33 per cent. would be so strong as to be dangerous. The Magistrate: Did he not know that it was for a particular purpose, for which 33 per cent. is the specific prescription?—The Solicitor: I am afraid my client is rather old-fashioned, and this is an article very seldom asked for. After it had been pointed out that no pecuniary advantage was derived from the alteration in the strength, the magistrate ordered each of the defendants to pay 2l. 2s. costs.

## New Companies and Company News.

P.C. means Private Company and R.O. Registered Office

**GILES & TATTERSALL, LTD. (P.C.).**—Capital, 1,200l. Objects: To take over the business of a cash drug company formerly carried on by Giles (Cash Chemist), Ltd., at 105 Scotland Road, Liverpool.

**X-RAY TUBES, LTD. (P.C.).**—Capital, 1,000l. Objects: To carry on the business of manufacturers of and repairers of and dealers in x-ray and vacuum tubes and all kinds of chemical glassware. R.O.: 11 Torrington Place, Gower Street, London, W.C. 1.

**ZETA DRUG CO., LTD. (P.C.).**—Capital, 500l. Objects: To carry on the business of chemists, druggists, apothecaries, etc. The first directors are T. C. King, 15 Aldersgate Street, E.C., and S. Westall, 37 Upper Berkeley Street, W. 1. R.O.: 180 Fleet Street, London, E.C.

**VELFOMA CO., LTD. (P.C.).**—Capital, 100l. Objects: To carry on the business of manufacturers of and dealers in "Velfoma" coconut-oil shampoo, liquid, solid and soft soaps of all kinds, cosmetics, perfumes, medicinal and herbal extracts, etc. R.O.: 34 Moss Street, Garston, Liverpool.

**R. ANSAY, LTD. (P.C.).**—Capital, 2,500l. Objects: To carry on the business of merchants, brokers, traders, commission agents, and manufacturers of and dealers in chemicals, drugs, essential or other oils, herbs, patent medicines, tablets and capsules, pills and powders, soaps, toilet and druggists' sundries, extracts and ointments, surgical dressings and instruments, etc. R.O.: 44 Wilson Street, London, E.C. 2.

**MAPLE LEAF SODA FOUNTAIN CO., LTD.**—Capital, 500,000 dollars in 5-dollar shares. Incorporated in Canada on November 17, 1920, to manufacture and deal in bottles, syphons, stoppers, containers, soda fountains, pharmaceutical and chemical appliances, etc. British address: 49 Westbourne Grove, London, W. 2. W. M. Macleod, of 6 Austin Friars, E.C., is authorised to accept service of process and notices on behalf of the company.

**TUDOR WILKIN & CO., LTD. (P.C.).**—Capital, 1,000l. Objects: To take over the business of importers and exporters of pumice stone and powder, natural and artificial pumice stone, cuttlefish bone, and work or manufacture all their adjuncts and incidental products, chemicals and chemical substances, and general import and export merchants carried on by Tudor Wilkin & Co. R.O.: 15 New Broad Street, London, E.C.

**DEVON CHEMICAL CO., LTD. (P.C.).**—Capital, 500l. Objects: To carry on the business of chemists, druggists, oil and colour men, etc. The first directors are G. F. Storey, 15 Ashleigh Road, West Park, Leeds; N. V. Stow, Harlington, Newton Abbot; A. W. Simpson, Hatfield, Bonnybridge; J. H. Keighley, 63 Argyle Street, Keighley; and H. S. Prince, 22 Victoria Terrace, Leeds. R.O.: Harlington, Newton Abbot.

**MABYN & CO., LTD. (P.C.).**—Capital, 500l. Objects: To carry on the business of manufacturing, wholesale, retail, consulting, and analytical chemists and druggists, importers, exporters, and manufacturers of and dealers in all kinds of drugs, proprietary and other medicines, medical and pharmaceutical preparations, chemicals, toilet articles, perfumery, etc. H. W. W. Northwood, sen., 1 King David Lane, London, E. 1, wholesale sundriesman, is permanent governing director.

**NETTOLENE CHEMICAL CO., LTD. (P.C.).**—Capital, 15,000l. Objects: To take over the business of a chemical manufacturer carried on by J. H. Johnson at 33 Chester Road, Manchester, and at 49 Brownlow Road, Willesden, N.W., as the "Nettolene Chemical Co.," together with the benefit of Patent No. 17,100 of 1910, relating to the preparation or treatment of halogen-hydrocarbons to render them soluble in dilute-soap solutions; the right to manufacture and deal in a substance known as "Nettolene"; and the benefit of a process for the manufacture of another substance known as "Chloran." R.O.: 49 Brownlow Road, Willesden, London, N.W.

**JOSEPH NATHAN & CO., LTD. (proprietors of Glaxo).**—The new issue of 300,000l. 8 per cent. cumulative participating preferred ordinary shares of 1l. each was largely over-subscribed, and the list was closed at ten o'clock on May 24.

**BRUNNER, MOND & CO., LTD.**—The directors have declared a dividend for the half-year ended March 31, 1921 at the rate of 6 per cent., less tax, making 8 per cent. for the year, compared with 11½ per cent. a year ago. The sum of 50,000l. is placed to suspense account, 165,000l. to depreciation, and 264,000l. written off stocks out of profits and 141,000l. is carried forward.

**NEW ITALIAN COMPANIES AND DIVIDENDS.**—The National Medical and Pharmaceutical Institute during its last financial year made a net profit of lire 339,759, permitting a dividend of lire 9.00 per share, equal to 12 per cent. The company decided to increase its capital from lire 2,250,000 to lire 3,750,000 by the emission of 20,000 new shares of lire 75. During 1920 the sale of pharmaceutical products reached lire 6,801,338, of which lire 747,239 was paid for taxes on the specialities. The production surpassed that of 1919 by about 40 per cent. and was intensified through exportations abroad. To the branches and representatives of South America and Spain were added those of France, Greece, Turkey, Tunis, and Libya. Fratelli Pozzi di P., Novara, is a new firm, with a capital of lire 300,000 for twenty years, for trading pharmaceutical products. Società Agricola Industriale Fecolerie Italiane Riunite, Turin (producers of starch and farina), made a satisfactory profit during its last financial year, from a capital of lire 8,000,000. The capital was increased to lire 12,000,000 by the issue of 40,000 new shares of lire 100. Ditta Annibale Biancardi, Milan, a new company, with a capital of lire 500,000 for six years for trading in pharmaceutical products, drugs, and chemicals. Achille Brioschi & C., Milan, an important chemical and pharmaceutical products works, made during its last financial year, from a capital of lire 3,500,000, net profit of lire 810,696, paying a dividend of lire per share.

## General Medical Council.

THE General Medical Council met for their summer session on May 24, at their headquarters in Hallam street, London, W. The *personnel* remains the same, those members who retired having all been reappointed. Sir Frederick Taylor, treasurer for a brief period, and Mr. Pye-Smith, of the University of Sheffield, have passed away. A knighthood has been conferred on Sir Edward Coey Bigger.

The programme of business is a light one, and the Council, "under the uncertainty of present conditions," evidently intend finishing before the end of the week, and look forward to meeting in November "for the important business [the medical curriculum] which will then be ready for consideration in greater comfort and [let us hope] more assured peace." In order to expedite matters the Council took the unusual step of beginning the penal cases on the first day, and, instead of rising at 4 P.M., at till 5.30.

### THE PRESIDENT'S ADDRESS.

With regard to practice in other countries, the President stated that reciprocity had been withdrawn in Belgium, our practitioners there being now required to obtain a Belgian qualification. Reciprocity may probably, however, be granted in Spain, and progress has been made in South Africa which will make its degrees registrable at home. The Council have deemed it necessary to communicate their opinion to the Indian Universities that, unless within a year the standard of their requirements in midwifery is raised to a satisfactory level, recognition must be discontinued. The Pharmacopœia Committee, he continued, has had under consideration the Draft Regulations proposed by the Home Office for giving effect to the recent Dangerous Drugs Act. The Committee pointed out to the authorities various particulars, suggested by its members and by other members of the Council, in which amendment of the draft was necessary in the public interest. The chairman and secretary, on behalf of the Committee, have had interviews with the officials concerned, and have by request given information on the subject to a special committee set up by the Home Secretary for the purpose of considering the numerous amendments to the Draft Regulations that had been proposed by medical and pharmaceutical bodies. It is understood that a detailed revision of the original text has been undertaken by the Home Office, with a view to removing, so far as the Act permits, the objections urged against the draft. The Council have not yet received copies of the Regulations as amended, but they understand that effect will be given to their representations. The President then said that the Departmental Committee, appointed by the Ministry of Health to consider and advise on the administrative measures to be taken for the control of the quality of certain therapeutic substances, such as serums, vaccines, salvarsan, etc., which cannot be tested by direct chemical means, has issued its report. The commendations give effect, in what appears to be a satisfactory manner, to the wishes of the Council as expressed in a communication made to the Lord President in 1909. The Dental Bill, which was next referred to, had made a great step towards the removal of the dangerous causes revealed by the Departmental Committee's report. He said the President, "Though we may regret its imperfections, we may be prepared to welcome it as an earnest of wider reforms." Three additional or dental members appointed by the Privy Council are to co-operate with the Council when dealing with dental matters. The chances of the Council show a satisfactory revival, due to the increase of registrations, which now reach almost exactly to pre-war level. The registration of medical students, though a thousand less than in 1919, still imposes a great strain on the teaching institutions, and to raise both the educational standard and the fees would, said the President, be both prudent and justifiable. Dentistry, however, needs a large accession of new recruits. Dr. Mackay reported orally, on behalf of the Education Committee, that the attention of medical schools had

been drawn to the recent changes in the Council's regulations by which medical students are now required to have attained the age of seventeen, that the standard of education must be equivalent to a university matriculation, and that they must have studied elementary physics and chemistry at an approved institution.

### PENAL CASES.

The first penal case taken was that of Frederick P. R. Gover, L.R.C.P. and L.R.C.S. Edin., L.R.F.P.S. Glas., c/o Pearce & Sons, West Smithfield. Dr. Gover has been three times convicted of being drunk while driving a motor, being sentenced on one occasion to a month's imprisonment, and last November he had, by wilful negligence, caused bodily harm to a woman in Kingsway and been imprisoned for three months in the second division. Dr. Gover appeared, accompanied by his counsel, Mr. Watts. The Council's solicitor stating the evidence received from the police courts, added that the offences were all admitted. After Mr. Watts and the Council's solicitor had addressed the Council, strangers were asked to withdraw. On strangers being readmitted, the President announced that, to give Dr. Gover an opportunity of reconsidering his discreditable and dangerous habit, judgment would be postponed until the May session, 1922.

The next case was that of Clement Thomas Cory Kingdon, M.B., C.M., M.D., 62 Falcon Road, Clapham Junction, London, S.W., who was charged with giving a medical certificate to an Australian soldier without having seen or examined him. After witnesses had been examined, the announcement was made that, taking into consideration Dr. Kingdon's previous good character and the assurance that the certificate was given without due care and thought, judgment would be postponed until November.

The case of John Thomas Godfrey, M.B., of Royton Hall, Oldham, was taken next. He had been convicted and sentenced to three months' imprisonment at the Manchester Assizes last November for attempting to obtain money and goods by fraud from the local Red Cross Society. The Lancashire Insurance Committee had appealed to the Ministry of Health to hold an inquiry, and were satisfied in the result that all the offences had been deliberately committed. Mr. Godfrey, who is an Indian, attended, accompanied by Mr. Clarke, his counsel. Mr. Clarke urged the possible fallibility of juries, and the inherent improbability that a popular young successful doctor, of good family, with a large private practice of between 4,000 and 5,000 patients, bringing in thousands a year, should for no motive imperil his career for a paltry 5*l.*—the misappropriations amounted altogether to less than that. After only a short deliberation the Council, however, came to the conclusion that the facts were proved, and that the name of J. T. Godfrey must be erased.

The Dental Committee had ascertained, on the complaint of the British Dental Association, that one George Ormiston, of Skene Street, Aberdeen, in practice before 1878, had been covering a former pupil named Thow, and associated with the latter in the practice. As Mr. Ormiston stated to the Council through his solicitor that he had now severed all connection with Thow, that he had finally retired from dentistry, and that he wished to withdraw his name from the Register, the Council's action in striking him off was practically anticipated.

If the action of the Council members in taking penal cases on the first day was unexpected, they provided a greater surprise on Wednesday in rising at 4 P.M. instead of at 6, the time to be made up by meeting at noon on Thursday with the intention of beginning and finishing the academic business on that day.

In "The Architect's Journal" for May appear plans of a fume cupboard and glazed benches, prepared by Messrs. A. W. S. Cross and K. M. B. Cross, architects, 46 New Bond Street, London, W. 1. The plans, which include the usual elevations and sections, are on a scale of about half-an-inch to a foot, enabling the details to be clearly seen.

## Standardisation of Adrenalin.

AN extremely interesting paper on the necessity of the physiological standardisation of adrenalin, and of preparations of the suprarenal gland, was presented by M. M. Tiffeneau at a recent meeting of the Society of Pharmacy of Paris. M. Tiffeneau commenced by stating that of recent years adrenalins of varying degrees of purity had been placed on the market, and that he had had occasion to analyse products containing 40 and as much as 60 per cent. of foreign bodies, mostly consisting of ammonium-magnesium phosphate. M. Gérard, chief of the therapeutic laboratory of the faculty of medicine, even found a preparation, sold under the name of adrenalin, which contained no trace whatever of the active principle of the suprarenal, and was devoid of any specific action. On the other hand, he had met with adrenalins which, while proving to be chemically pure, exhibited only one-half of the physiological action of the official product. These proved to be synthetic products, representing the racemic form of adrenalin. This variation in activity, and the fact that substitutes are offered in the place of the official product, apart from its adulteration, render it imperative to establish a strict method of physiological standardisation for this important remedy, as it is only by this means that its efficacy can be established. Detailing his ten years' experience in handling adrenalin and preparations of the suprarenal gland, M. Tiffeneau described his researches, and the methods adopted for the evaluation of these products. The most reliable method of establishing the physiological activity of adrenalin consists in comparing in the same animal the variations in the arterial blood pressure produced by injections of these products. An adrenalin of absolute purity and full activity is used as the standard. For these tests the dog is found most suitable, and the animal is first anaesthetised and then given an injection of atropine sulphate in the proportion of one milligram for every kilogram of body weight. Without entering into the details of the test, minutely described by the author, it may be stated that it is based, first of all, upon establishing by a series of tentative injections of a 1:10,000 solution of the standard adrenalin the most convenient increase in blood pressure produced, which is 6 cm. to 8 cm., corresponding to an increase of pressure of 12 cm. to 16 cm. of mercury. It was generally found that this was effected by a dose varying between 2/100 and 6/100 of a milligram of standard adrenalin. As a result of his exhaustive researches, M. Tiffeneau was able to establish that natural *laevogyrate* adrenalin possesses a vasoconstrictive action which is more than double that of the racemic (synthetic) product, the exact relationship being 1=0.46, and from this may be inferred the dangers attending the use of a product not possessing the full activity of the official substance, particularly in the case of so active a drug. In describing his investigations on various preparations of the suprarenal glands, in the form of a desiccated powder, and as extracts of the glands, the author stated that he had established that one kilo. of fresh suprarenal gland obtained from horses contained on an average two grams of adrenalin. Since the loss incurred in desiccation and by removing the fat amounts to about 80 per cent., it follows that 100 grams of desiccated suprarenal gland corresponds to 500 grams of fresh gland (of horses), and contains one gram of adrenalin, the standard also adopted by the United States Pharmacopoeia. With one exception, the commercial products complied with this standard, and, indeed, some samples examined showed a slightly higher content of adrenalin. Of interest is the observation that if carelessly stored—i.e., kept in imperfectly closed bottles and exposed to light—desiccated preparations of the suprarenal gland at the end of a year show a loss of about 50 per cent. of their original content of adrenalin. While the desiccated preparations of the suprarenal gland were found to contain the correct proportion of adrenalin, this, the author stated, did not apply in the case of preparations obtained by extracting the glands, whether

intended for injection or not, and none of the commercial samples of this class of suprarenal preparations contained the amount of adrenalin which should have been normally present. This he ascribes principally to the lack of sufficient precautions in carrying out the various manipulations entailed in extracting the glands, especially to the use of a solvent not sufficiently acid to dissolve the adrenalin in the glands. Finally, M. Tiffeneau urged the need for establishing the standard chemical tests for the evaluation of each of the various organo-therapeutic products used in medicine, and, in the absence of a satisfactory chemical test, of ascertaining a reliable method of physiological assay. Should it be found that these means are inadequate, he submitted that the manufacture of this class of products should be placed under efficient supervision by controlling the various stages in the process of manufacture, or that such establishments should be licensed.

## British Pharmaceutical Conference.

### THE JOURNEY TO SCARBOROUGH.

SUGGESTIONS have been made to the local Committee that, in view of the limited railway service, a motor service might be organised between London and Scarborough. It is hoped, however, that the miners' labour dispute will have ended long before the Conference week and that the railway service will have been restored to normal.

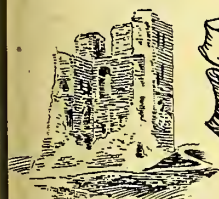
### THE SCIENCE PAPERS.

Mr. R. R. Bennett, hon. secretary of the British Pharmaceutical Conference, has sent us the following titles of papers which have already been submitted to the Executive:

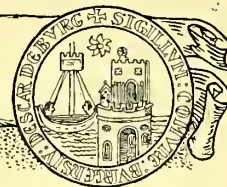
- "The Keeping Properties of Pituitary Extract under Tropical Conditions."
- "The Keeping Properties of Extract of Male Fern under Tropical Conditions."
- "The Ether Solubility of Scammony Resin."
- "The Approximate Estimation of Commercial Cresol in Lysol."
- "The Analysis of Sodium Arsenate."
- "The Assay of Colchicum by the Phospho-tungstic Method."
- "A Contribution to the Study of Digitalis."
- "The Nature and Composition of Irish Moss Macilage."
- "The Determination of Nitrate in Bismuth Salts by Means of Titanous Chloride."
- "The Determination of Small Quantities of Phosphate in Glycerophosphates."
- "The Titration of Certain Alkaloids."
- "The Determination of Formaldehyde in Tablets."
- "The Assay of Alkaloidal Ointments."
- "Enzymes—A Working Hypothesis."
- "The Quantitative Estimation of Small Quantities of Bromine in Saline Residues."
- "The Analysis of Theobromine Sodium Salicylate."
- "Note on Liquefied Carbolic Acid."

THE MANUFACTURE OF INTERMEDIATES.—At a recent meeting of manufacturers and others interested in dyes and intermediates in London reports on new processes for the production of various acids were read. It was claimed for the processes (the invention of a British chemist) that a finer quality was obtained at a very much reduced cost: the processes had been submitted to Dr. Drake Law, who reported that they resembled the best German practice. "H" acid could be produced to sell at 6s. a lb., whereas the present market price was about 10s. In addition, the plant could be used for the economical production of "Gamma" acid, Cleves acid, Schaeffer's acid, "S" acid, "R. and G." salts, and others.

## BRITISH PHARMACEUTICAL CONFERENCE



## SCARBOROUGH



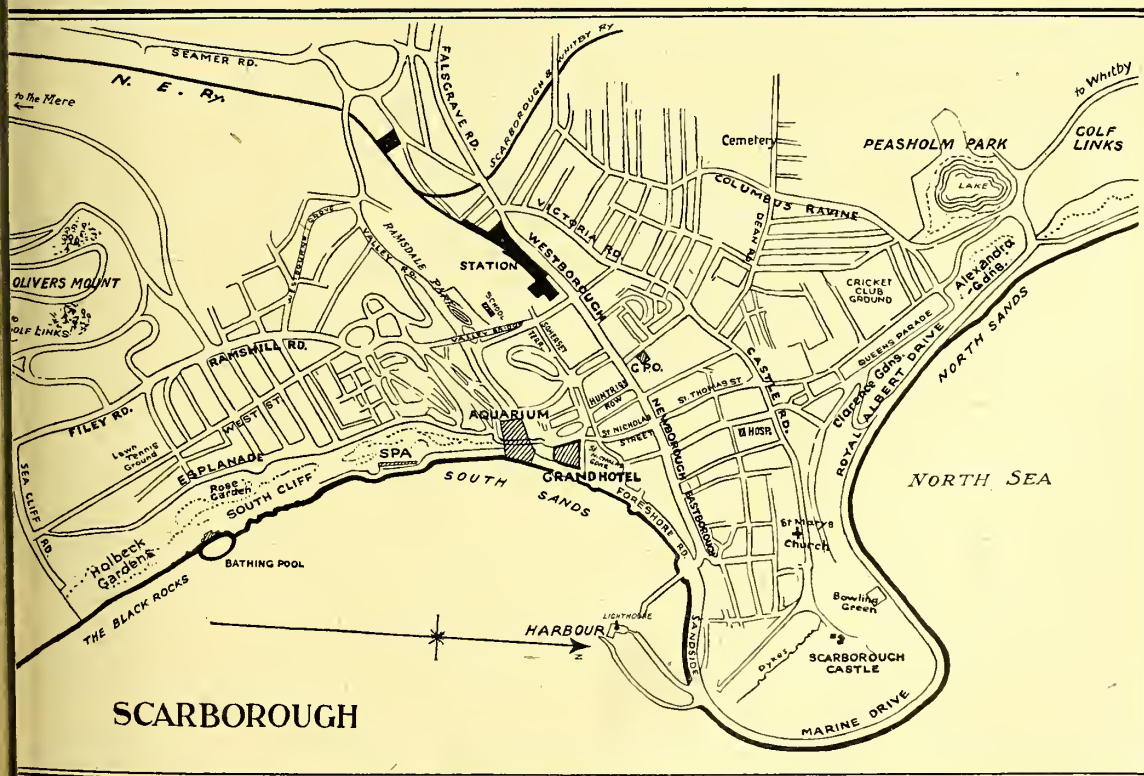
## The district and its Pharmacies

THE American saying, "See Paris and die," can be paraphrased, so as to apply to Scarborough, for the benefit of those not yet familiar with the popular resort chosen for this year's British Pharmaceutical Conference. The oblique "Queen of Watery places," enjoyed by Scarborough for over a century, is no exaggeration. Were Scarborough a pharmaceutical galenical, the phrase would, surely, be its official synonym. Unlike the fabled princess who shed her jewels at every step, Queen Scarborough adds to her diadem each successive year such attractions as befit her. Within the last quarter of a century the municipal authorities have beautified the town in every direction, without detracting one iota from its natural charms. Little wonder, then, that conference after conference meets here.

Scarborough welcomes with open hands all classes of visitors. She provides a list of attractions such as few towns can offer. Her hospitality is proverbial, while the health-giving Yorkshire air and fashionable surroundings tend to make a visit enjoyable, instructive, and beneficial. Scarborough has advantages as regards travel facilities. owing to its proximity to the city of York, the town is within an hour's connection of nearly all the great railway systems. From King's Cross Station, Scarborough can be reached in about five hours. Equally good is the service to the Midlands via Sheffield, while delegates from the North are quickly conveyed on the North Eastern Rail-

way. The lover of old cities can profitably stay a night or a few hours in York, where there is much of historical interest—for example, that famous ecclesiastical pile, the Minster; the city walls, with their well-preserved portcullis gateways; St. Mary's Abbey; the Museum, containing the earliest-known dated bronze mortar; the Guildhall; and some ancient gabled houses. From York the line to Scarborough traverses the pretty valley of the Derwent, passing Castle Howard and the ruins of Kirkham Abbey. On nearing Scarborough, the Mere—an ornamental sheet of water 46 acres in extent—is seen on the right. Leaving the station, the visitor can proceed towards the sea by way of Westborough, Newborough, and Eastborough, these names being varying designations of the continuous main street. A turn to the right, either down Huntriss Row or St. Nicholas Street, leads to the Grand Hotel on the St. Nicholas Cliff. This magnificent structure, the headquarters of the Conference, is a noted landmark: two hundred of its rooms command a sea view.

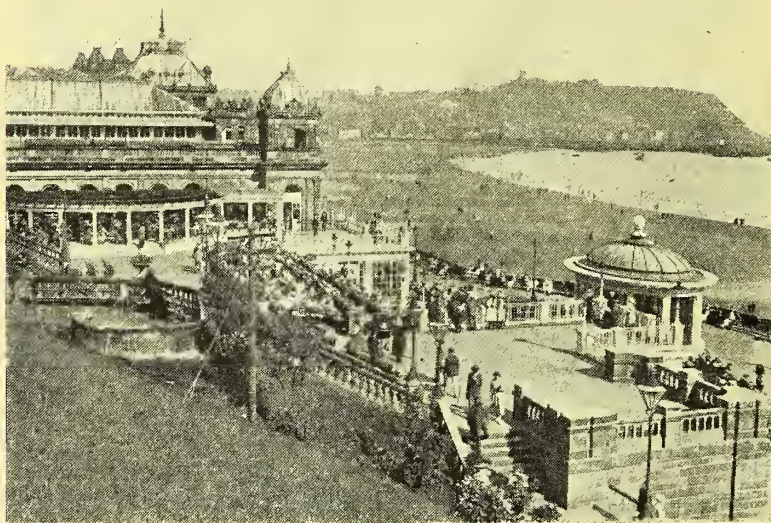
The topography of Scarborough is a little puzzling at first. The town may be regarded as divided into two parts—the north and south sides—by the rocky promontory known as the Castle Hill. The ruins of the ancient Castle can be seen from many parts of the town standing on a stretch of greensward some 16 acres in extent and 300 feet above the level of the sea. Historians state that in the thirteenth century the Castle Hill had an



SCARBOROUGH

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acreage nearly four times its present span. The linking of the North and South Bays by the construction of the Marine Drive was possibly the greatest engineering feat ever undertaken by a municipality the size of Scarborough. The foundation-stone was laid in 1897, and the drive was formally opened by the Duke of Connaught in 1903. Its cost was 140,000. The drive is 40 feet above low-water mark, 1,100 feet in length, and 60 feet to 100 feet wide. At the north side it joins the Royal Albert Drive, which extends to Peasholme. The drive is provided with seats and cafés, and now yields the Corporation a handsome revenue.



THE SPA, WITH PAVILION AND BAND STAND.

### The South Side.

On the southern slopes of the Castle Hill are many steep, winding streets and courts, forming what is known as "the old town," inhabited mostly by seafarers and harbour workers. There is a delightful old-world quaintness about this part of Scarborough. Sandside is that section of the foreshore which partly encircles the harbour and leads to the East Pier and Marine Drive; and it contains a house (No. 23) known as "King Richard III.'s House." The "Hunchback," according to local tradition, sojourned here on more than one occasion. This house, though considerably restored, possesses interesting fireplaces, ceilings, and cornices. An enterprising antique dealer uses it for the display of his collection. The "Three Mariners" Inn (formerly the haunt of smugglers and pirates) and the "Newcastle Packet" Inn are reputed the oldest houses on Sandside. The West Pier forms the south side of the harbour. Here the visitor is reminded that Scarborough is a fishing port of importance. In the autumn, when the herring shoals are off the coast, the harbour is crowded with vessels, and hundreds of Scottish fisher-girls visit the town to assist in the laborious packing processes connected with the fish-industry. The Foreshore Road extends from the Grand Hotel to the harbour. It is continued as Sandside to the Castle Cliff, and again round the drive to the North Bay. It is reached by the central tramway or by the zig-zag slope on the south side of the Grand Hotel. On the way the visitor may notice the St. Nicholas Gardens, Bland's Cliff (a short cut to Eastborough), the Royal Northern Sea-bathing Infirmary, and the lifeboat house. In proximity to the Grand Hotel stands the memorial statue of Queen Victoria, which is also near the Town Hall. Formerly known as St. Nicholas House, this handsome Elizabethan mansion was acquired by the Corporation in 1898. A wing was added at the eastern extremity, and many departments of the municipality have been housed in it. The council chamber, which is

worthy of the town, will be visited by the Conference delegates.

The sands in both bays are exceptionally level and firm. At low tide these are of considerable extent, enabling many hockey, football, or cricket matches to be played simultaneously. As a playground for children Scarborough sands are unsurpassed. One of the newest and most successful ventures of the Corporation is the Bathing Pool, just beyond the Children's Corner in the South Bay. At high tide the sea flows over the outer wall, the water thus being changed frequently. The pool is 350 ft. long and 190 ft. wide, and varies in depth from 2 ft. 9 in. to 7 ft. Diving-boards and all modern teaching appliances are provided, and instruction in the art of swimming is carried out.

### SCARBOROUGH SPA.

The Spa occupies a beautiful garden site within a few yards of the Conference headquarters, and is Scarborough's chief attraction. The main entrance is by the Cliff Bridge which also affords an easy transition to the South Cliff. From this bridge a good view is obtained of the Valley Park, the Valley Bridge, and the People's Palace. The Spa is really the rendezvous of all the fashionable world and his wife. True, there are some medicinal springs, the virtue of which were discovered in 1620 by a Mrs. Farrow. According to Hinderswell, a local historian, this intelligent lady noticed that "the stones over which the waters have passed received a russet colour, an finding that the water had an acrid taste and to receive a purple tincture from galls, she thought it might have a medicinal property." Some seventy years later a wooden shelter

and cistern were erected for the convenience of people of quality who came from a distance. There is in existence a mezzotint portrait of "Dicky" Dickenson, beneath which appear the lines:

"Behold the Governor of Scarborough Spaw,  
The strangest phiz and form you ever saw."

In 1739 a new pump-room was erected on a larger scale. Smollett, in "Humphrey Clinker," writes: "The Spa is a little beyond the town on this side under the cliff within a few paces of the sea, and thither drinkers every morning in *deshabille*." The present Grand Hotel and buildings were opened in 1880, replacing a less pretentious music pavilion which was destroyed by fire in 1876. The Concert Hall is capable of seating 3,000 persons, and has further accommodation in the promenade gallery. A theatre, billiard-room, picture gallery, a café are additional features of the Spa. In the summer months three open-air concerts are given daily under the direction of Mr. Alick MacLean, of the Queen's Hall Light Orchestra. Under the colonnade of the lower part are several shops. The famous Esplanade overlooks the Spa, and can be reached by many terraced walks. The galaxy of fashion known as "the church parade" is unrivalled in any Continental country.

Proceeding onwards along the Esplanade in a southern direction, the gentle slopes of the cliff lead to the Rose Garden. Here may be seen many thousands of rare varieties of England's favourite blooms displaying their glory and exhaling their fragrance. More recent enterprise is observed in the famous Italian Gardens. These are laid out in classical style. Pergolas, lily ponds, statuary and ornamental supporting walls are tastefully utilised making a lovely scene. At the extremity of the Esplanade is a clock tower, the appreciated gift of a private resident. This marks the entrance of the Holbeck Gardens, some 15 acres in extent. Magnificent views can be obtained from almost any of the charming walks which

have been constructed on the slopes of the cliff. We also find innumerable seats, shelters, and flower-beds, a feature of all the council's open spaces. A fact worth noting is that similar gardens are dotted here and there throughout the borough; no less than 186 acres consists of parks and pleasure gardens.

#### OLIVER'S MOUNT.

The ascent of Oliver's Mount is well worth undertaking. All roads from the Esplanade lead to Ramshill Road, one of the two shopping streets on the South Cliff. Following this road beyond Messrs. Whitfield's pharmacy, the visitor takes the turning on the right, which passes St. Margaret's College for girls, and then the first turning on the left leads to the summit, 489 feet above the sea. The view from the mount is superb and varied. Each street and notable building is displayed as if on a gigantic map. Looking in an easterly direction, Flamborough, Spennithorne, and Speeton Cliffs are easily recognised, and from other points of vantage a wide stretch of the Yorkshire wolds. Scarborough College for boys is seen on high ground off Filey Road, and near by, at Deepdale, is the 18-hole golf course of the Scarborough Club. This is largely used by visitors, as members of other golf clubs may become temporary members. Before leaving the South Cliff, the churches are worth our notice. St. Martin's, on the hill, contains a reredos designed by Sir E. Burne-Jones, and also an oak pulpit with two panels by Rossetti. In close proximity is South Street: at the corner is Clare & Hunt's pharmacy, facing an antique and artistic emporium, such as gladdens the heart of any collector. The Congregational Church in Ramshill Road has a pinnacled clock tower and spire 75 feet high, and the Wesleyan Church is situated in the same road on the left.

Leaving the South Cliff, it is more convenient to take the Valley Bridge, as it saves the descent to the Valley Park and is a direct road to the station and Westborough.

This bridge is now toll free and affords a view of one of Scarborough's beauty spots. Just 70 feet below the bridge are the central carriage drive, a large ornamental duck pond, and an aviary. The Valley Park is a favourite shady sheltered ravine, five acres in extent and surrounded with pretty residences. Overlooking this park is the Municipal School of Science, a three-storey building completed in 1890 at a cost of 25,000/. There are on the ground floor numerous classrooms and instructional workshops. The upper floor contains chemical, physical, and botanical laboratories, as well as a large lecture-room. Just before reaching the station and Pavilion square the visitor should take the first turning to the right—Somerset Terrace—leaving the Crescent on the left, and visit No. 13 Brunswick Terrace, the house in which Lord Leighton, President of the Royal Academy of Arts, 1878-1896, was born on December 3, 1830. York-shire claims him as one of its sons, though his family had migrated northwards from Shropshire in the thirteenth century. His father and grandfather were both medical practitioners. The grandfather was for a time a court physician in Russia, and was eventually knighted. His son, Frederic Septimus Leighton, was in practice till about the year 1843, when increasing deafness compelled him to retire. Although Lord Leighton (unlike many famous artists) failed to show any marked artistic power, or even fondness for painting, among his ancestors, he showed a striking predilection for sketching in his childhood, filling little books with efforts that bore a close resemblance to studies. Dr. Leighton, it is said, tolerated rather than encouraged his son's taste until friends noticed the real talent displayed.

#### The North Side.

Taking the station as a starting-point, and walking in the direction of the sea, almost any street on the left leads to the North Side. Conference visitors will find it convenient to take either St. Thomas Street or Queen's Street. The Theatre Royal, Grand Opera House, and Court House are in St. Thomas Street, while just off Queen's Street, in Friars' Entry, is the Scarborough Hospital and Dispensary.

The principal attraction of this part of the town is the Castle, now consisting of the battered remains of the ancient keep and obsolete barracks. Baker, the Scarborough historian, gives good reasons for believing that the Castle was built by William the Conqueror. Henry II. caused it to be rebuilt and enlarged, and since his day it has been besieged no fewer than six times. In 1312, during the revolt of the barons, Piers Gaveston, the favourite of Edward II., had to capitulate to the Earl of Lancaster. The fortress was at that time considered the strongest in the kingdom, but lack of provisions compelled the favourite to yield. The year 1536, during the Pilgrimage of Grace, a rising due to Henry VIII.'s suppression of the monasteries, witnessed the second siege. Again, during Wyatt's rebellion in 1553, the Castle was taken by the enemies of Queen Mary, and yet once more, in the following year, by Lord Westmorland. During the Cromwellian wars Scarborough Castle played an important rôle in what is known as the Great Siege. Sir Hugh Cholmley, after a resolute defence of twelve months, was obliged to surrender the fortress to Sir Mathew Boynton in 1644. Boynton had succeeded Sir John Meldrum, the Parliamentary General, who had been mortally wounded in the assaults. In 1648 Colonel Mathew Boynton, second son of Sir Mathew, having been appointed Governor, accepted a Royalist bribe of 3,000/. and sided with the King. This action brought about another siege, with Colonel Bethel in command: the



THE ITALIAN GARDENS, SOUTH CLIFF.

garrison were able to hold out for fifteen months. George Fox, the Quaker, was a prisoner in the Castle in 1661. It is recorded that his gaolers provided him so scantily with bread that a threepenny loaf had to last him three weeks, and that out of malice they mixed wormwood with his water. The Scarborough corporation has for twenty years or more controlled the Castle Hill and conducted certain excavations. The curiosities thus unearthed—cannon-balls, skulls, etc.—are now arranged in the old guard-room, within the precincts of the walls. A walk round the Castle greensward affords a fine picture of the sea and the whole town.



CHURCH PARADE ON THE ESPLANADE—SHOWING GRAND HOTEL ON THE RIGHT.

## THE OLD PARISH CHURCH.

On emerging from the Castle gateway, a halt should be made at St. Mary's Parish Church, an imposing edifice rebuilt about 1669 on the site of a former Cistercian monastery, the ruins of which still exist in the churchyard. St. Mary's has experienced many vicissitudes. Before the Reformation three towers were known to exist. The present chancel is small, occupying only the space of a former central tower, which collapsed in 1659. The building was largely restored in 1850 at a cost of 8,000*l*. The tower contains a splendid peal of eight bells, which were in the Great Exhibition (London) of 1851. (The writer has happy recollections of associations with this church nearly thirty years ago, as an amateur campanologist, and also treasures the indelible memory of a July day in 1897, when, with a Scarborough bride, he received a Bishop's nuptial blessing there.) Over the south porch the priest's chamber, or parvise, has been fitted up as a museum of local ecclesiastical objects, and is worth inspection. A mural tablet is fixed in the south transept in memory of Dr. R. F. L. Blunt, Bishop of Hull, who was for over forty years (1864 to 1905) vicar of the parish. In the churchyard is the tomb of Anne Brontë, sister of Charlotte and Emily Brontë, who died at Scarborough in 1849. The names of Charlotte and Emily Brontë, it is hardly necessary to add, are among the most renowned in English literature.

Leaving the church, a footpath nearly opposite the north-east corner leads to the extreme end of the Queen's Parade, overlooking the North Cliff and Royal Albert Drive. The cliffs at this part are rugged and almost perpendicular. Below are the Clarence Gardens, transformed from what was formerly a crumbling waste of undercliff. These gardens cover 23 acres, and are attractively laid out with winding paths, shelters, tennis-courts, bowling-green, and entertainment kiosk. They recall to a great extent the beauties of the gardens on the South Cliff. The walk can be continued in a northerly direction as far as the Alexandra Gardens, or, if preferred, on the Lower Sea Wall promenade (known as the Albert Drive) to the North Cliff bathing bungalows.

## ALEXANDRA GARDENS.

The Alexandra Gardens, which were opened in 1908, form one of the principal attractions on the North Side. The gardens cater for everyone's amusement and recreation. The walks are also very pleasant, as they are sheltered from the winds by high ornamental mounds. The notable feature of these gardens is the Floral Hall, a glass structure of the Crystal Palace type, with a seating capacity of 1,500. Instrumental and vocal concerts are given almost daily during the season, the artistic surroundings making the performances all the more enjoyable. Leaving these gardens by the Peasholme Road entrance, we find the tram terminus, from which transmission to any part of the borough is easy.

## PEASHOLME PARK AND THE CLIFF TO SCALBY MILLS.

We have not yet finished doing the sights of the North Side, however, as there still remains the Peasholme Park and Lake, occupying what was, within the recollection of the writer, a comparative waste of undulating land, with an insignificant streamlet running through it. This derelict site undoubtedly lent itself to the transformation as a pleasure ground and ornamental garden. Peasholme Park is not without its historic associations. In reality it is part of the old manor of Northstead, which, like the Chiltern Hundreds, provides a Government appointment to members of Parliament desirous of relinquishing their seats. The large ornamental lake, with its islands and waterfalls, occupies some four-and-a-half acres. A wooden bridge links up the large island with the mainland, and this, like the shelters and other park-buildings, is designed in an Oriental fashion. There is a landing-stage, at which small boats belonging to the Corporation can be hired. The lake is well stocked with fish, and visitors may, on payment of sixpence, cast a line in the waters.

Another fairly recent improvement in this part of Scarborough is the section of cliff from Peasholme in the direction of Scalby Mills, along which a concrete seawall and promenade have been built. Above the promenade are numerous bathing bungalows, a public shelter,



THE BATHING POOL IN SOUTH BAY.



THE LILY POND IN THE ITALIAN GARDENS, SOUTH CLIFF.

and refreshment-rooms. The bathing facilities here have solved the problem of combining privacy with hospitality. The bungalows are let to tenants, together with the exclusive use of their forecourts; the shelter is available as a dressing-room in the early morning, at the microscopic fee of twopence, and this sum includes the use of the shower-baths. An hour or so can be well spent in following the promenade about a mile to Scalby Mills, at the extremity of the North Bay. At this point the Scalby Beck emerges from a narrow glen and finds an outlet to the sea. The stream may be crossed on stepping-stones. Scalby

itself lies about a mile inland, but it is difficult to reach the village by following the glen. This involves a rough clamber along the top of the southern bank. Leaving the North Side by way of Columbus Ravine to Dean Road, we pass through a district which in pre-war days was notable for rapid and extensive building operations. The main entrance to Scarborough's Cemetery is in Dean Road. The new extension to this cemetery is yet another of Scarborough's beauty spots.

Its chief feature is a deep ravine spanned by an ornamental bridge; on either side of the ravine the slopes are well terraced. The statuary and other memorials, interspersed with rockery and rare flowering shrubs, are tastefully arranged at different levels. It is a unique picture, a veritable "God's acre."

From the cemetery an enjoyable semi-circular tramride can be taken to the centre of the town via Manor Road and Falsgrave. Falsgrave is an important residential suburb at the western end of the borough. A town with the name Waldesgrif was known to exist here

prior to the compilation of the Domesday Book. It is recorded that Tostig, Count of Northumberland, pillaged and burnt it. In a translation of the Domesday Survey we read: "In Waldesgrif and Nordfeld, a berewick, there are 15 carucates of land for geld which 8 ploughs can plough. Tosti held this for 1 manor. Now it is the King's. 5 villeins are there having 2 ploughs. Pasturable wood(land) 3 leagues in length and two leagues in breadth." There is a conciseness about the "Now it is the King's"—one of many such entries—that points to compulsory acquisition. William's Saxon predecessors

possessed only a very small estate in the county. The Falsgrave district is also interesting as having included lands yielding a rent to the once flourishing hospital of St. Nicholas, founded in or before the thirteenth century. In certain ministers' accounts belonging to the reign of Henry VIII., the sum of 100s. is put down as the annual rental of all the messuages, lands, tenements, etc., in "Skerburgh" and "Fallegrave"; these had been let for thirty-three years to one Hugh Hungate,

who was to pay annually nine score salt fishes, a barrel of white herrings, a cade of red herrings, and 11s. 8d., this miscellaneous levy being afterwards commuted for the sum mentioned. Falsgrave has its own shopping centre, and at least two thriving pharmacies—Messrs. Chapman & Sons' and Mr. Scott's—in close proximity. Several fine churches are in the locality—All Saints', in Falsgrave Road; St. James's, in Seamer Road; and Holy Trinity, in Westbourne Grove. Falsgrave Park, a nice pleasure-ground, is up the Spring Hill. From this point a good view of the town is obtained.



ST. MARY'S, THE PARISH CHURCH.



THE LAKE IN PEASHOLME PARK, NORTHERN SIDE OF SCARBOROUGH.

## Features of the Borough.

That Scarborough is no modern upstart among watering-places is shown by the fact that the Royal charter which incorporated it as a borough was granted by Henry II. in 1181. In this deed an earlier grant by Henry I. is referred to; we can safely assume, therefore, that the town was endowed with certain privileges and was a place of no mean importance before that time. The borough arms, which are registered in Heralds' College, are classed among the most ancient. The common seal includes a castle, a galley of the rudest form, and a star. The inscription is (in Lombardic characters) "Sigillum Commune Burgensium de Scardeburg." King Richard II. granted a charter, in 1382, which decreed the borough to be a county in itself, as distinct from the rest of Yorkshire. These powers were confirmed by Richard III. in 1485. This monarch took up his abode at Scarborough in the house in Sandside which still bears his name. King John made two visits to Scarborough, and in 1275 the court of Edward I. was held at the Castle. Nine original Royal charters have been preserved out of twenty-nine granted between the days of Henry II. and Charles II. Some seventy years ago, when the population was about 7,000, the corporation consisted of forty-four members; now, when the population is more than 40,000, the number of representatives is twenty-four. The rateable value of the borough is estimated at 250,000*l.*

The new General Post Office, in Aberdeen Walk, is a handsome modern building a few yards from Westborough. Letters posted by 7 P.M. are delivered in London the following morning. Branch offices with telegraphic conveniences are situated at Sandside, near the Harbour, and at Ramshill Road, South Cliff.

Several well-appointed clubs extend privileges to visitors by introduction, viz.: The Club, opposite the Grand Hotel; the Constitutional Club, Huntriss Row; the Liberal Club, Alma Square; the Masonic Club, St. Nicholas Cliff. Four Craft Lodges hold their meetings at the Masonic Hall: The Old Globe, No. 200; Denison, No. 1248; Leopold, No. 1760; St. Nicholas, No. 2586. Chapters are attached to the Old Globe and Denison Lodges. The brethren of the Mark Degree are provided for by the Star in the East Mark Lodge. Pharmacists Freemasons can enjoy, during Conference week, the temporary privileges of membership of the Masonic Club.

The electric overhead tramway system is owned by a local company, and a good service is provided. There are four circular routes, from the South Bay, passing the Railway Station to Falsgrave or Prospect Road, and returning to the West Pier. There are also two cliff tramways, which afford an easy way of reaching the sands.

The Museum is close to the Grand Hotel, and contains a very fine collection of objects concerning local history, including those brought together by Mr. Thomas Hinderwell, a noted historian. The building itself is somewhat curious, consisting of a circular room of the temple type, with a rectangular room on the east and another on the west. Erected nearly a century ago by the Scarborough Philosophical and Archaeological Society, it is gratifying to record that it is still the meeting-place and headquarters of the Society, the President of which is Mr. E. R. Cross, the Conference local secretary. The Scarborough Field Naturalists also meet here, and during the favourable months the members maintain an exhibition of flowering plants for the instruction and delight of visitors. Among the striking exhibits in the Museum is a well-preserved skeleton of a British chief, found many years ago in a tumulus at Gristhorpe. The ornithological collection is excellent, and includes a rarity which museums throughout the world envy—a great auk's egg. A number of articles connected with the bombardment of Scarborough have been added, and form a section in themselves.

Leaving the Museum, the Aquarium lies at our feet. This wonderful subterranean structure, also known as the People's Palace, was designed over forty years ago by the originator of the Brighton Aquarium. The establish-

ment covers a large and valuable site. Upwards of 110,000*l.* was spent in the original venture, and in successive years the place has seen many vicissitudes. The piscatorial exhibitions soon failed to maintain an adequate "gate," and eventually gave place to a "ten hours' continual programme of attractions for sixpence." The Aquarium, under the new scheme, enjoyed a long, successful life, and on wet summer days became known as "Scarborough's umbrella." The buildings are now closed, and the enterprising Corporation has discovered a scheme which will enable Scarborough to be even more complete as a health resort. The Ministry of Health has held an inquiry into the Corporation's proposal for the conversion of the Aquarium into a comprehensive medical bath establishment; and as the local medical practitioners support the civic authority, there can be no doubt that the scheme will go through. The buildings are quite adaptable for such a purpose, and medical baths will prove an all-the-year-round attraction to the town.

## The Bombardment of Scarborough.

The early morning of December 16, 1914, will live long in the memory of the inhabitants of Scarborough. The coast was enveloped in a bank of fog, and all was serene in the town. Many of the residents were at breakfast or dressing, and others were making their way to business. Suddenly a squadron of German cruisers emerged from the mist and directed their instruments of "Kultur" towards the unfortified town. For twenty minutes a terrible cannonade was in progress. The startled people had scarcely realised what was happening when the firing ceased for a while. Numbers who had taken cover then unwisely ran into the streets to see what they could, when the shelling recommenced. This second attack continued some minutes: the Admiralty report states that nineteen were killed and eighty wounded. It is estimated that upwards of 500 shells of large calibre were fired into the town: some of these were 22½ inches long and weighed 83 lb. The east and north wards suffered less than the central, west, and the south.

The Grand Hotel proved an attractive target for the enemy. Both its towers and two storeys were nearly demolished; the restaurant and picture-house also were reduced to ruins. At the Prince of Wales Hotel damage to the extent of more than 4,000*l.* was done. The Spa gardens were riddled with shells, many of which, however, failed to explode. Other missiles went through the Balmoral and Royal Hotels, the Town Hall, the Lighthouse, and Queen Margaret's School. A large shell exploded within the Gladstone Road School, in which half-an-hour later some hundreds of children would have been present. A corner of Clare & Hunt's South Cliff pharmacy was torn away, the projectile also wrecking a large art emporium and killing two men on the doorstep. One of these victims was an old and faithful servant of Mr. John Clare (*C. & D.*, II., 1914, p. 852). Whitfield & Son's Filey Road pharmacy was struck by several fragments, and narrowly escaped a direct visit from at least three shells. As it was, four shop-windows and several house-windows were broken. Mr. John Whitfield, writing shortly after the event, remarked on the curious circumstance that this pharmacy was not insured, while the firm's other pharmacy, which was insured, passed through the bombardment unscathed. Three churches—St. Mary's, All Saints', and St. Martin's—suffered considerably, and in Belle Vue Street not a house escaped partial destruction. The Castle got a share of unwelcome attention, and, in fact, the greater portion of the town was strewn with *débris*. The accommodation at the Scarborough Hospital was not equal to the unfortunate occasion. Many of the seriously wounded were attended to at the large Wesleyan Chapel in Westborough, which was used as a temporary hospital in charge of the local St. John Ambulance Society. Scarborough was again bombarded by submarines in September 1917, five persons being killed and twelve injured. The Scarborough people soon commenced restorations. All the broken and shattered buildings have now regained their normal appearance, and there is little to remind the stranger of the terrible ordeal.

## The Flora of Scarborough and the Surrounding District.

In 1891 the Grand Hotel, Scarborough, was the scene of the conference of the Yorkshire Naturalists' Union. In this connection a fine loan exhibition was arranged. Around the walls of a large room hung some five hundred local wild flowers which had been gathered, mounted, and named by a local chemist's apprentice. Thirty years have elapsed: the collector and his plants have experienced many vicissitudes in five different countries. The pursuit of scientific botany was abandoned on his emergence—with a scroll—from the examination-room at Loomsbury, to tackle the more sordid duties of the average pharmacist's life. The box of plants found a resting-place in the museum of a county town about five years ago. It is a coincidence, strange and gratifying, that on the eve of another conference to be held under the same roof the writer should be invited to pen a note on the flora of Scarborough, having nothing to guide him but a brief search through the now mouldy specimens, which in their pristine state so long ago contributed their quota to another Scarborough conference. No attempt is made here at classification: the figures after some names refer to the rarity of the specimens compared with 2, the number of botanical districts into which Great Britain is divided. Owing to limitations of space, the selection has been somewhat curtailed, but it is hoped that enough names have been given to show that this part of the British Isles compares favourably with any similar acreage.

Scalby Mills and Cloughton have been prolific. The following may be culled:

*Stragalus Glycyphyllos*  
*Tropa Belladonna* (33)  
*Arenz binervis*  
*Arenz paniculata*  
*Antisus scoparius*  
*Aphne Laureola* (51)  
*Rosera rotundiflora*  
*Thium vulgare*  
*Uppatorium cannabinum*  
*Lago germanica*  
*Umaria pallidiflora* (28)  
*Elleborus viridis* (28)  
*Thyrus pratensis*

*Lazula maxima*  
*Lazula pilosa*  
*Malva sylvestris*  
*Marrubium vulgare*  
*Origanum vulgare*  
*Parnassia palustris*  
*Potamogeton crispus*  
*Potamogeton densus*  
*Scirpus lacustris*  
*Teucrium Scordonia*  
*Vicia Cracca*  
*Vicia sepium*

The cliffs in the direction of Cayton Bay are credited with:

*Meria maritima*  
*Assica deracea*  
*Orlina vulgaris*  
*Gingium maritimum*  
*Ankenia laevis*  
*Lium erectum*  
*Lium verum*  
*Ruz maritima*  
*Oppophae rhamnoides*  
*Thyrus maritimus*  
*Naria vulgaris*  
*Thiola sinuata*

*Medicago lupulina*  
*Onobrychis sativa*  
*Ononis arvensis*  
*Orobancha elatior*  
*Pedicularis sylvatica*  
*Pinguicula vulgaris*  
*Plantago maritima*  
*Sanguisorba officinalis*  
*Silene maritima*  
*Ulex europeus*  
*Valerianella olitoria*  
*Viola arenaria*

Wrayburn Wyke, with the surrounding dales and dells, is replete with a flora of its own. The Wyke's quota includes:

*Loea spicata*  
*Primonia eupatoria*  
*Smia Plantago*  
*Uilegia vulgaris*  
*Pidium angulare*  
*Erychium Lunaria*  
*Copteris fragilis*  
*Ponicum Pardalianches*  
*Copteris spinulosa*  
*Phorbia amygdaloides*  
*Ala Helenium*  
*Straea spinulosa*

*Lathraea Squamaria*  
*Littorella lacustris*  
*Lychnis Flos-cuculi*  
*Muscari racemosum*  
*Oenothera biennis*  
*Ophioglossum vulgatum*  
*Ornithogalum pyrenaicum*  
*Polygonatum multiflorum*  
*Polygonum Bistorta*  
*Scolopendrium vulgare*  
*Scrophularia aquatica*  
*Tamus communis*

Forge Valley appears to have contributed:

*Barbarea vulgaris*  
*Cephalanthera grandiflora*  
*Chrysosplenium alternifolium* (67)  
*Gagea fascicularis* (41)  
*Habenaria chlorantha*  
*Listera cordata*  
*Listera ovata*  
*Myrrhis odorata* (60)

*Maianthemum convallaria* (1)  
*Orchis apifera*  
*Orchis muscifera* (42)  
*Orchis pyramidalis*  
*Orchis ustulata*  
*Prunus Cerasus* (33)  
*Rubus saxatilis* (61)  
*Saxifraga granulata* (75)

Raincliff Woods and Hackness are the habitat of:

*Adoxa moschatellina*  
*Alchemilla vulgaris*  
*Asperula odorata*  
*Circea lutetiana*  
*Geum intermedium*  
*Geum rivale*  
*Geum urbanum*  
*Iris Pseudacorus*  
*Lythrum Salicaria*  
*Melilotus altissima*  
*Mentha hirsuta*  
*Myosotis caespitosa*  
*Myosotis palustris*

*Myrica Gale*  
*Narthecium ossifragum*  
*Paris quadrifolia*  
*Potentilla comarum*  
*Reseda lutea*  
*Scutellaria Galericulata*  
*Solidago Virgaurea*  
*Spiraea Filipendula*  
*Spiraea saliciflora*  
*Spiraea ulmaria*  
*Symphytum officinale*  
*Trientalis europea* (33)  
*Viburnum Opulus*

The moors from Silpho to Cross Cliff have yielded:

*Antennaria dioica*  
*Calluna vulgaris*  
*Chlora perfoliata*  
*Cornus suecica* (14)  
*Digitalis purpurea*  
*Erythraea Centaurium*  
*Erythraea pulchella*  
*Euphrasia officinalis*  
*Gentiana amarella*  
*Gentiana campestris*  
*Gentiana pneumonanthe*

*Helianthemum Chamacistus*  
*Linum angustifolium* (35)  
*Linum catharticum*  
*Lysimachia nemorum*  
*Malva moschata*  
*Pyrola media* (37)  
*Pyrola minor* (65)  
*Trifolium procumbens*  
*Vaccinium Vitis-Idaea* (62)  
*Verbascum Thapsus*  
*Vinca minor*

On the Spa ground *Osmunda regalis*, the royal fern, thrived in a semi-wild state; and near the Castle ruins *Smyrniolus Olusatrum* (Alexanders) and *Cheiranthus Cheiri* have been gathered. On the slopes of the Castle Hill and on neighbouring pieces of "wild" ground have also been found:

*Arenaria Lloydii*  
*Atriplex arenaria*  
*Atriplex littoralis*  
*Bidens cernua*

*Cakile maritima*  
*Carduus eriophorus*  
*Epilobium angustifolium*  
*Helminthia echinoides*

Raincliff Mere is credited with *Menyanthes trifoliata*.



THE ABBEY, WHITBY. (See p. 70.)

## Some Scarborough Chemists and their Pharmacies.

MR. JOHN WHITFIELD, F.C.S., Ph.C.

Mr. John Whitfield, F.C.S., Ph.C., has had a long and honourable career in the borough, and now enjoys retirement at his beautiful home, The Mount, Falsgrave. Mr. Whitfield was apprenticed at York with the late Stephen Baker, brother of "Joe" Baker, the Yorkshire historian. His early training embraced (as was then customary) a groundwork of agricultural and veterinary pharmacy; he improved his outlook and his knowledge by assistantships at Brighton and in the West End of London. While an assistant he found time to attend Professor Bentley's botanical lectures, subsequently becoming a full-time student at Bloomsbury Square sixty years ago. Mr. Whitfield, in addition to passing the "Minor" and the "Major," secured medals in botany and materia medica. He recalls with some amount of pride that his name is recorded in the lecture-theatre of the Pharmaceutical Society immediately preceding that of the late Michael Carteighe. Armed with his new credentials, Mr. Whitfield returned to his native town. His father, gratified at his son's success, purchased premises at 113 Westborough, and on March 11, 1863, Mr. John Whitfield took down the shutters and began to give the public of his best services as a pharmacist. The history of the business has been one of continued prosperity. He had ideals, and never forgot that he was a pharmacist first of all. Several successful men have received a training under him, and at least two of his apprentices—Messrs. Paterson and Salter—were Bell scholars. On the occasion of a Royal visit to Scarborough in 1870, Mr. Whitfield received a warrant of appointment as chemist to H.R.H. the Prince of Wales, and this was eventually replaced by one to H.M. the late King Edward VII. A similar honour was awarded him in respect of the late King Leopold of Belgium. Mr. Whitfield never took a prominent part in local affairs and politics, although he steadfastly supported medical, hospital, and nursing charities. He avoided the limelight of publicity—so much so that subterfuge was almost necessary for the writer to extract these few personal facts. It is of interest to British Pharmaceutical Conference delegates to learn that Mr. John Whitfield was one of the founders of the Conference, and possesses a complete set of its transactions. In March 1913 Mr. Whitfield celebrated the jubilee of his business career. The "Scarborough Mercury" marked the occasion by a personal note from his own pen. We cull the following:

I owe much to the little band of helpers who during the years have given me efficient service, many of whom, here and there, I still count among my most valued friends. I now claim the leisure due to me. My garden, etc., possibly interest me more than business, but it is still my privilege and pleasure to put in a daily appearance, though my son has very capably taken the reins and relieved me of the burden of business worry.

In spite of his more than four-score years, Mr. Whitfield is wonderfully active, and it is hoped that he will be well enough to tear himself away from his garden, poultry, camera, and books to put in a personal appearance during some proceedings of the Conference which he helped to establish.

MR. GEORGE WHITFIELD, Ph.C.

Mr. George Whitfield, Ph.C., chairman of the local Committee, was apprenticed in his father's Westborough pharmacy, and, prior to attaining his majority, embarked on serious studies at Bloomsbury Square. Under the guidance of Professors Attfield, Dunstan, Green, and Ince he qualified in 1888, passing the "Major" early in the following year. He then went as assistant to the historic house of John Bell & Co., 225 Oxford Street, London W., with the great traditions of which he became imbued. After three years of this experience Mr. George Whitfield joined his father in

business. Another epoch in the history of "Whitfields" followed shortly afterwards—the opening of the Filey Road pharmacy, South Cliff, on an extensive corner site in the best residential neighbourhood. Both art and refinement have been exemplified in the interior arrangements of this pharmacy. The retail department occupies about one-third of the floor-space, and calls to mind the average West-End shop. A circular showcase and a prescription-desk with standard books of reference are features. The dispensing department is beyond, and is so constructed that work is carried on under cheerful conditions. A large window, the lower portion of which is stained glass, diffuses an ample north light on the counters. A third section, lighted in a similar way, replaces what may be termed the usual back shop. Here packing, pricing, sorting, and so forth are done. The manager is Mr. Harold M. Hirst, chemist and druggist, who has an efficient staff. Mr. George Whitfield has of late years been a member of the Scarborough corporation, and in this capacity has not been found wanting. Local pharmacists have rarely, in the history of the town, identified themselves with municipal affairs. Mr. Whitfield, however, is nothing if not progressive, and his colleagues have recognised his worth by appointing him chairman of the amusements sub-committee. Much sacrifice of time, ability, and foresight are necessary qualifications for the position. Closely associated with the Masonic fraternity, Mr. Whitfield is a Past Master of the Denison Lodge, and holds rank in the North and East Riding as Past Provincial Assistant Grand Director of Ceremonies. Messrs. Whitfield have held the Rexall agency for Scarborough since the inception of that organisation in England. Mr. George Whitfield is a believer in its future growth, and was one of the British delegates at the big reunion at Boston last year. He is a much-travelled man, for his peregrinations include upwards of twenty visits to different Continental countries, as well as to Syria and Egypt. Very appropriately, Mr. Whitfield is this year's President of the Scarborough and North Riding of Yorkshire Association of Pharmacists, and is also chairman of the North Riding of Yorkshire Insurance Committee.

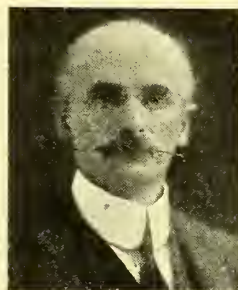
MR. E. R. CROSS, Ph.C.

Mr. E. R. Cross, Ph.C., the energetic secretary of the local Committee, who resides in Filey Road, South Cliff, has retired from the pursuit of active pharmacy. He is widely known and respected throughout the borough, with which he has a lifelong acquaintance. A son of the late Alderman H. M. Cross (a former Mayor of Scarborough), Mr. Cross never sought council honours, but has identified himself with many organisations of an educational and scientific character. A man of wide knowledge, keenly devoted to Nature study, Mr. Cross is a Past President of the Scarborough Field Naturalists' Society, and President, since 1919, of the Philosophical Society. Mr. Cross served an apprenticeship with the late Mr. J. F. Smith, Victoria Road, Scarborough, and passed the Qualifying examination in 1888. He was then for two years with Mr. Brown, Headingley Park, Leeds, but returned to Scarborough in 1890 as assistant to Mr. W. Parker, Westborough. It was here that the writer of these notes, then a raw apprentice, had the good fortune to come under Mr. Cross's guiding influence. Mr. Cross was reading for the "Major" at the time, and, being naturally gifted with a faculty to communicate his knowledge to others, he somehow stimulated his junior to make a daily advancement in pharmaceutical and chemical skill. This practical help enabled the writer to qualify without the usual college course, to figure as a prize winner in the C. & D. Students' Corner competition, and to be possessed of an almost complete herbarium of Yorkshire's flora. Mr. Cross passed the "Major" in April 1892, and purchased a pharmacy at Rochdale in the same year. This he disposed of to return to Scarborough in

# SCARBOROUGH CHEMISTS



Mr. E. R. Cross,  
Local Secretary.



Mr. Edgar M. Chapman,  
Local Treasurer.



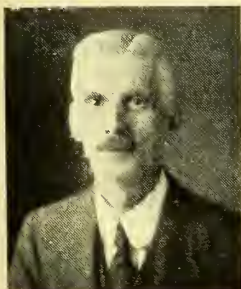
Mr. W. R. Eyre.



Mr. John Whitfield, F.C.S.



Mr. H. R. Allanson.



Mr. H. E. Hunt.



Mr. George Whitfield.  
Chairman of the Local Com-  
mittee.



Mr. F. A. Lund.



Mr. Edward Parker.



Mr. H. M. Hirst,  
President of Junior Pharmacy  
Club.

1895, succeeding the late Mr. W. Parker at 96 Westborough. For some nine years he traded as Parker & Cross, but from 1904 to 1914 in his own name. Mr. Lund, a former assistant, became proprietor in the latter year, when a removal was made to new premises close by. Mr. Cross is a director of the Scarborough Spa Company, Ltd., an institution on which much of the town's prosperity has depended.

#### CLARE & HUNT.

The business of Clare & Hunt, South Street, was founded in the early 'fifties by a pharmacist named Coverley, and afterwards passed into the hands of a Mr. Smart, who owned the concern for ten years. Later, Messrs. Clare & Hunt took over the concern, and carried on at the former premises on the Old Cliff. The firm enjoyed the privilege of a Royal warrant from her late Majesty Queen Victoria. On the untimely death of Mr. Thomas Clare, Mr. John Clare, the surviving partner, took control, and (the firm being pioneers on the South Cliff) the business was embodied at No. 1 South Street. During the bombardment in 1914, a corner of the pharmacy was blown away, and an old servant of the firm was killed (see p. 62). Mr. John Clare is a highly popular member of the Masonic craft, having been connected many years with the Old Globe Lodge.

#### MR. R. J. SIMMS.

Mr. Robert John Simms, 5 Ramshill Road, is the oldest practising pharmacist in Scarborough and a pioneer of his art on the residential South Cliff. Mr. Simms served his apprenticeship with Bayes & Allen, King's Lynn, subsequently having wholesale experience in London. He registered in 1869 by passing the Modified examination, and then gained experience at Exeter, Stourbridge, and Dover prior to settling in Scarborough in 1872. Mr. Simms's pharmacy is double-fronted and occupies a good position facing the South Cliff Post Office. Mr. Simms has a long and successful record as a family and dispensing chemist. One of his daughters is married to a well-known Manchester pharmacist, and another is quite *au courant* with the requirements of her father's pharmacy.

#### MR. R. M. HILL.

Mr. Richard Mainprise Hill, proprietor of the Thistle Pharmacy, 24 Victoria Road, served a five years' apprenticeship (1873-77) to the late Mr. Samuel Eccles, 9 Westborough, Scarborough. Later, Mr. Hill was an assistant at Reading. After a course of training at Wills' Westminster College, he qualified in 1880. Returning to Yorkshire, Mr. Hill was assistant for some time at Pickering. He established himself at Scarborough in 1883. Since 1902 Mr. Hill has enjoyed the assistance in business of his



SOME OF THE HOSTESSES: MEMBERS OF THE LADIES' COMMITTEE.

#### MR. EDWARD PARKER.

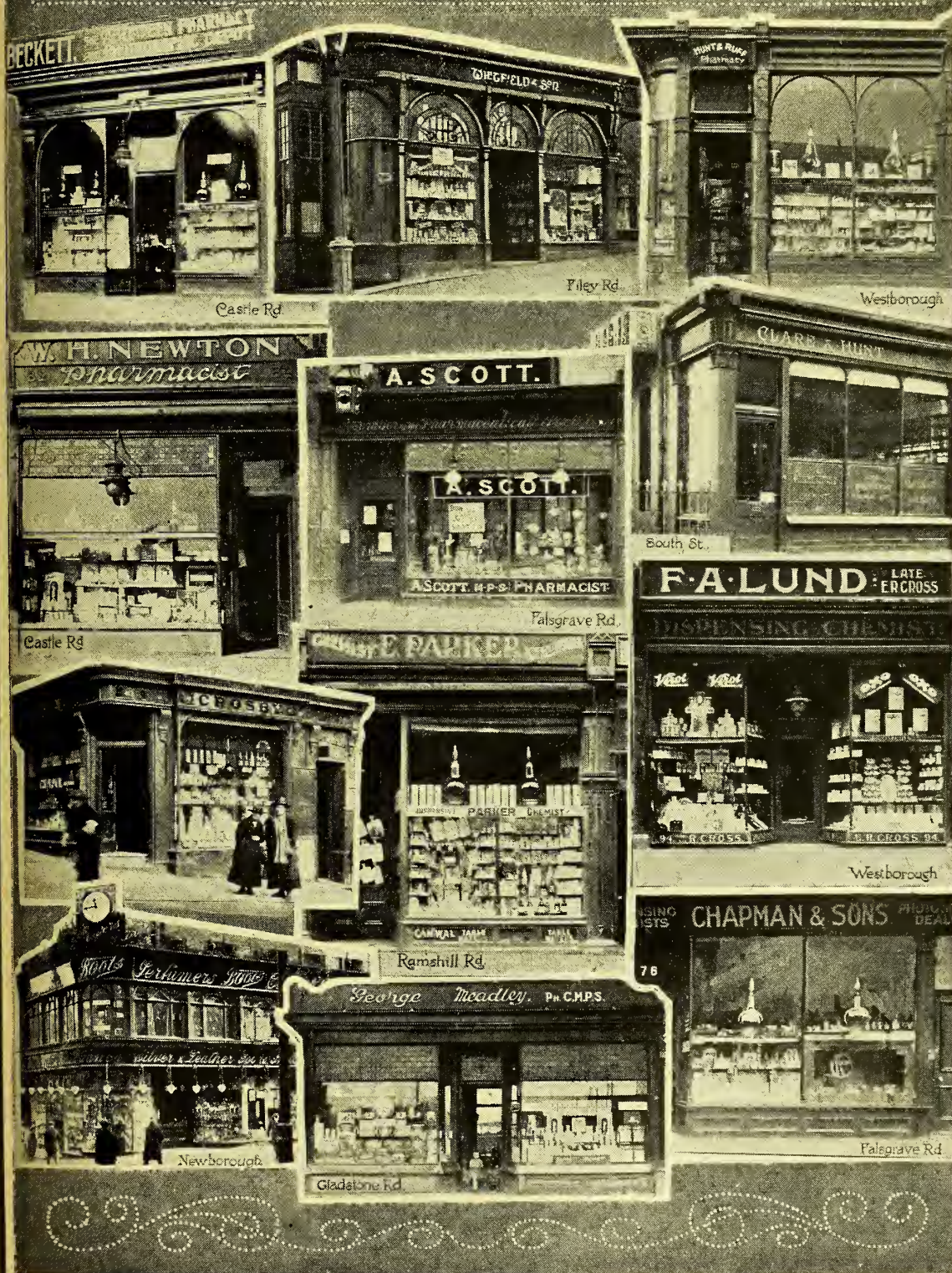
Mr. Edward Parker's pharmacy is on the South Cliff at 29 Ramshill Road, in one of the best residential districts, and was established by him in connection with his brother, the late Mr. William Parker, Ph.C., some thirty years ago. Mr. Parker belongs to an old Yorkshire family, long residing at Sessay Park, near Thirsk. He served his apprenticeship in that town with the late Mr. William Foggitt, the well-known botanist. On completing an indentured span of five years he qualified from the Westminster College of Pharmacy in 1887. Later, he had experience with Mr. Gibbs, Terminus Road, Eastbourne, and with Messrs. Kendall, York, coming to Scarborough in 1891 and opening the present pharmacy as a branch of the Westborough business. After the death of Mr. W. Parker he was associated for nine years with Mr. E. R. Cross in the two concerns. Mr. Parker has closely identified himself with sports; cricket and bowls are his favourite distractions. Always imbued with the romance of travel, in 1910 he laid aside the business for twelve months in order to make a tour round the world. His peregrinations on that occasion embraced South America, Australia, New Zealand, Japan, India, and the Mediterranean. Mr. Parker formed a unique set of photographs and lantern slides which are highly educational, and on more than one occasion he has delighted local audiences with his "travelogue." Mr. Parker is a member of the local Masonic fraternity, and an active worker in connection with the Scarborough and North Riding of Yorkshire Association of Pharmacists.

daughter, Miss A. M. Hill, Ph.C. Miss Hill was a student at the Metropolitan School of Pharmacy, and subsequently at "The Square."

#### J. M. CROSBY, LTD.

J. M. Crosby, Ltd. (managing director, Mr. W. R. Eyre, chemist and druggist), 73 Newborough, own one of the oldest pharmacies in the borough. Founded in 1836 by the late Mr. George Ireland, the business was originally conducted in premises at the corner of St. Nicholas Street. Early in the 'forties these were pulled down for street improvements, Mr. Ireland removing to the present bold site at the corner of St. Thomas Street. Mr. Ireland was a member of the corporation from 1855 to 1858, and about that time was joined by the late Mr. J. M. Crosby, who eventually succeeded to the business. Mr. Crosby was one of the few pharmacists in Scarborough who interested himself in council affairs; his career recalls that of Hogarth's "industrious apprentice." He became associated with Dr. Rooke, who lived at Scarborough, and supplied him with cod-liver oil and material for making Rooke's Solar Elixir; and eventually they became partners in Crosby's Balsamic Cough Elixir. This arrangement lasted several years, when Mr. Crosby sold his share to Dr. Rooke, but retained the right to make and sell the Cough Elixir privately. Dr. Rooke then conducted his medicine business at premises in Westborough, opposite the station. Mr. Crosby died in 1884, and until 1896 the pharmacy was carried on by his executors. In the latter year a limited liability company was formed, with Mr. Robert Gilchrist

# Some Scarborough Pharmacies



as managing director, to take over the business. Mr. Gilchrist was widely known as a field naturalist, and was popular as a lecturer. On his death, Mr. Eyre succeeded as managing director.

#### MR. W. R. EYRE.

Mr. William Robert Eyre, chemist and druggist, managing director of J. M. Crosby, Ltd., served his apprenticeship with Mr. James Osborne, Ashbourne, and later was assistant with Mr. T. R. Jeans, Manchester. Passing the Qualifying examination in 1839, he returned to Ashbourne for about eighteen months, and then became successively assistant with Mr. T. M. Davis, Rhyl, and Headland & Co., Ltd., Brighton. In 1894 he went out to Malta as assistant to Mr. Kingston, Valletta, returning to England in 1896. It was on the voyage out that Mr. Eyre met his wife, who was one of a party of Australians returning home after making a trip round the world. Mr. Eyre was also for a time with Mr. J. V. Mainprize, Bridlington, before settling in Scarborough. He is a prominent Freemason.

#### MR. J. W. CHAPMAN.

Mr. John William Chapman, chemist and druggist, gained his rudimentary pharmaceutical training with his late esteemed father in Newborough, and supplemented his training as an apprentice by completing a full course of study at "The Square" before he had attained the necessary age for qualification. This presenting no difficulty, "Jack"—as a host of friends best know him—left scholastic ambitions to his studious younger brother, and became a pioneer by opening the present Falsgrave Road establishment. Here, for about a quarter of a century, a good family and dispensing connection has been well maintained. Mr. Chapman is a man of highly diversified interests and hobbies, embracing the driving and study of locomotive engines, the manipulation of chamber organs, experimenting with "the simple life," and climbing the ladder to Masonic distinction.

#### MR. E. M. CHAPMAN, F.I.C., F.C.S., Ph.C.

Mr. Edgar Marsh Chapman, F.I.C., F.C.S., Ph.C., of Henry Chapman & Son, was educated at St. Martin's Grammar School, Scarborough, and in 1894 won a scholarship tenable at Cambridge University. After a course of study there and at the Bloomsbury Square School of Pharmacy, he passed the Minor examination in 1897 and the Major in the following year. He next obtained a Burroughs Scholarship and a Salter Fellowship, and in 1899 became a Fellow of the Chemical Society. His Fellowship of the Institute of Chemistry dates from 1904. Mr. Chapman is a past-President of the Scarborough and North Riding Association of Pharmacists, President of the Scarborough Traders' Association, a member of the North Riding Insurance Committee, and a member of the Yorkshire Mineral Water Association, on the council of which he has served since 1908. In addition to the duties involved in these offices, Mr. Chapman has acted as chemistry master of Scarborough College since 1905. In Freemasonry he is Past Master of the Denison Lodge, No. 1,248, and Past Provincial Standard Bearer, North and East Riding.

#### T. W. LONGDIN & SON.

Established in 1837, the business of T. W. Longdin & Son, 19 Eastborough, is, if not the oldest chemist's establishment, one of the oldest buildings in the town, as part of the premises is built on the old Roman wall which originally marked the boundary of the town. Some of the wall still remains. When Dr. Rooke first began to make his Oriental Pills and Solar Elixir, Mr. Robson (then the proprietor of the Eastborough business) was one of his greatest friends; Mr. Robson bought the ingredients for Dr. Rooke's preparations and assisted in their manufacture until the premises were too small to cope with the business. For many years Mr. Robson used to attend the drug-sales in London to buy for Dr. Rooke. The back room of 19 Eastborough was a favourite haunt of many an old sea

captain; and if the walls could speak they might relate some of the wonderful tales heard through the haze of tobacco smoke and accompanied by the quaffing of wines and spirits that, rumour reports, were not on speaking terms with the Excise. Mr. Thomas William Longdin served his apprenticeship in Wakefield, and was afterwards in London, with Mr. Freshfield Reynolds, Ph.C., Harrogate, and with the late Mr. T. B. Groves, Ph.C., Weymouth. He commenced business in Scarborough thirty years ago, and has twice held office as President of the Scarborough Association of Pharmacists, of which he is now Vice-President. He is a prominent Freemason, being a Past Provincial Grand Standard Bearer, and is vicar's warden at St. Thomas's Church. His only son, Mr. John S. Longdin, served his apprenticeship with his father and qualified in 1913; he then gained further experience and returned home in May, 1914. Shortly after the outbreak of war he joined the Yorkshire Regiment; he was transferred to the A.S.C. in 1915, and was sent out to France. On the conclusion of the war

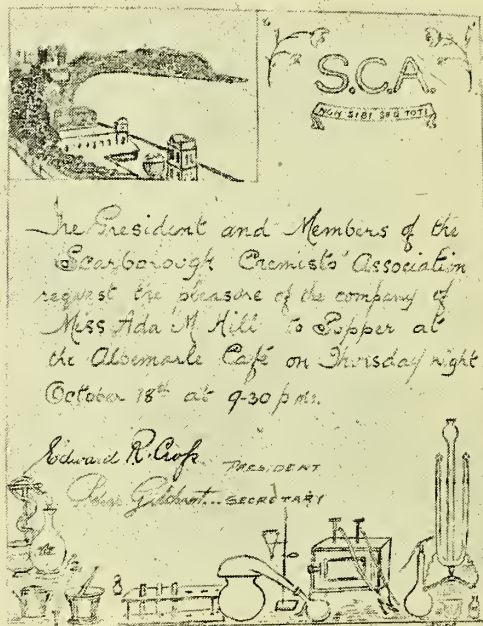
he returned, and joined his father as partner in 1919.

#### MR. W. H. TURNER.

Mr. William Henry Turner, chemist and druggist, Scarborough, manager to Boots, Ltd., qualified thirty-three years ago, and soon afterwards joined Mr. Foster, St. Nicholas Street, in his business, which was largely homeopathic. Here he spent ten happy and instructive years, leaving to take up an appointment with Mr. J. A. Radford, Union Street, Birmingham. Some years later he was offered the management of the wholesale and retail establishment of Milburns, Ltd., Hull. On Messrs. Boots completing their Scarborough branch sixteen years ago, Mr. Turner became manager. In this position he has achieved marked success.

#### MR. ALFRED JONES.

Mr. Alfred Jones, chemist and druggist, belongs to the older school of Scarborough pharmacists, and has now retired. It is half a century since Mr. Jones qualified, and for many years he controlled the destinies of two successful businesses in the town—now in the hands of Messrs. Beckett and Hunt respectively: several well-known pharmacists of to-day owe their early training to him. As an entertainer Mr. Jones is inimitable.



AN INTERESTING SOUVENIR.

An invitation issued by the Scarborough Chemists' Association to the first lady pharmacist in Scarborough.

## The Scarborough to Whitby Excursion.

By W. MASKEW, Ph.C.

The excursion to Whitby on June 16 promises to be a memorable one. No section of the whole British coastline offers more picturesque features than the twenty-one miles lying between Scarborough and Whitby. Wild waves break at the foot of rugged cliffs; there are cascades through shady dells, extensive and varied seascapes on the right, and on the left a heather-clad moorland. The botanist, the geologist, and the naturalist find the district a wonderland of rarities, which cannot be explored in a day nor a week.

Scalby is the first stopping-place on leaving Scarborough. The village, a quarter of a mile from the station, is of great antiquity. The place is regarded now as a suburb of Scarborough, but has an administrative body of its own. The church is prettily situated on an eminence above the stream. It is of ancient date, but has undergone extensive restoration and enlargement.

### CLOUGHTON.

Two miles further north is Cloughton, a good starting-point from which to ascend the moors. Here there is a choice of two roads to Whitby, the more westerly leading to Fylingdales Moor, passing Druidical remains on the way. Cloughton is noted for Cober Hill, for many years the country seat of the late Sir Frank Lockwood, K.C.

In the village church there are memorial windows and mural tablets commemorating members of the Lockwood family. Cober Hill has, within the past two years, undergone an interesting transformation, and is now used as a guest-house in connection with a scheme to bring a family holiday within reach of people of limited means. So far as this country is concerned, this new family colony is a pioneer movement. The guest-house itself accommodates 120 visitors, and, in addition, numerous Army huts have been transformed into furnished houses. Each building consists of three rooms, with distinctive decorations. The scheme has been planned so that housework is reduced to a minimum. There are a communal dining-room and sitting-room, cookhouse, and drying-room. The mansion itself contains a beautifully panelled room, the panelling having come from the old Law Courts when Sir Frank Lockwood was Solicitor-General.

### HAYBURN WYKE.

Proceeding onwards we reach Hayburn Wyke, one of the prettiest sylvan places in the neighbourhood. A small fee is payable at the hotel for admission to the woods and grounds. The ramble along the winding, shady pathways leads through the dell towards the sea. The student can find much of educational interest, as indigenous trees of all kinds, ferns, aquatic plants, and herbaceous perennials peculiar to the sea-shore thrive luxuriantly. "The Wyke" is the local name given to the stream, which makes a rugged course over the moors and empties itself into the sea over huge boulders. Staintondale is but a mile-and-a-half

further north, and makes a good starting-place for a walk to Ravenscar or Harewood Dale Moor. The village possesses little to interest the visitor. One historical fact may be noted. A building known as the Old Chapel was formerly a hospice belonging to the Knight Hospitallers of St. John, and, according to the terms of a charter granted by King Stephen, it was part of their duty to blow a horn at twilight, in order to direct the lonely traveller to this place of safety.

### RAVENSCAR.

One of the highest points on the route is at Ravenscar, formerly known as "the Peak." Some years ago this spot attracted building speculators, and considerable capital was sunk with a view to developing this bleak but invigorating site. The results up to the present have been disappointing from the prospector's point of view. The outlook from Ravenscar across Robin Hood's Bay is very fine. At the north end of the Esplanade are the grounds of the former Raven Hall. Viewed from a distance the castellated walls give the place the appearance of an imposing fort. Admission to the grounds—which have assumed the title "the Hanging Gardens"—is obtained through a turnstile. Certain

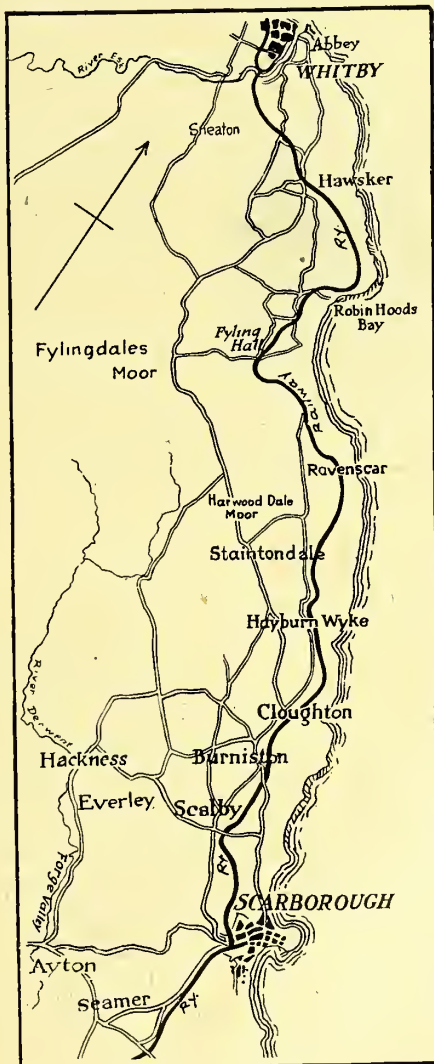
historical remains have been unearthed here, some of which have found a resting-place in the museum at Whitby. It is conjectured that a fort was in existence at Ravenscar as early as 400 A.D. Ravenscar has not escaped the notice of novelists; it is mentioned in "Many Junes," by Archibald Marshall. The walk from Ravenscar to Staintondale is graphically described by John Leyland in his "Yorkshire Coast":

All about him is the magnificence of Nature; far below, surging against the rugged scarps and broken undercliff, is the limitless sea, dotted with craft; his path is amid long grasses, heather, and wild flowers. The air is filled with the song of the lark, the cawing of crows, and the humming of many bees.

As he passes the deep cove of Blea Wyke, where, far beneath, the sea dashes upon a rocky spur, he must be cautious and sure-footed. At every step some new configuration is disclosed, some sheer declivity or broken steep, some deep cove, whose sober tones are lighted up with patches of heather, or some bare and buttress-like spur; and presently the huge Bees' or Beast Cliff (sometimes called the Darn Cliff) thrusts out its rugged form. Beyond it, reflecting with ruddy hues the sunshine, is the southern cheek of Hayburn Wyke, a scarp of grand characteristics prominent in all the country hereabout. Further still stands out the headland at Scarborough, with the Castle upon the steep; and when the day is clear the far-stretching form of Flamborough is discerned upon the dim horizon.

### ROBIN HOOD'S BAY.

Leaving Ravenscar we soon reach Fyling Hall, a place of little importance. According to tradition, Robin Hood hid himself at this spot when he waylaid the



SKETCH MAP OF THE ROUTE.

servants of the Abbot of Whitby on their way to Hackness. Robin Hood's Bay is four miles from Ravenscar and fourteen from Scarborough. The town is quaint and romantic. Its charm depends on its fine situation and erratic style of construction. Certain parts retain a very old-world appearance, although on higher ground a distinct town has sprung up in recent years. The older families are of Danish seafaring stock, and still retain a dialect peculiar to the bay. Artists who sojourn there usually yearn for a return visit. The older streets are steep and narrow, and are paved with pebbles. The principal excursion from Robin Hood's Bay is that to Falling Foss, a distance of seven miles. The Foss (or Force) is a fine waterfall, with a drop of 40 feet, formed by a tributary of the River Esk. One of the grandest walks in Yorkshire is obtained by following this stream northwards through Newton Woods to Sleights. Three miles from Whitby is the old-fashioned straggling village of Hawkser, where two monster stones mark the spots on which Robin Hood's arrows fell on the occasion of some incredible archery practice. For the rest of the journey the grand old abbey is in sight. The ride to Whitby may be modified somewhat so as to include the heights of Whitby Moor.

The return journey via Hackness and Forge Valley will prove not less exciting and romantic. The glimpses of these regions of cliff, dale, moor, and valley gained from a rapidly moving conveyance are somewhat inadequate, and many of the participants in the ride will, no doubt, on some future occasion supplement the experience



ROBIN HOOD'S BAY.

by a repeat visit. The road from Hawkser to Hackness for nearly ten miles is very entrancing, crossing here and there a pretty rivulet, winding up hill and through dale, and traversing many thousands of acres of heather-clad grouse moor. Most of the ride is at an elevation of some 600 feet, but as we approach Harewood Dale the road steadily descends, following for some distance the Low-north Beck, a tributary of the Derwent. Skirting Hackness Moor on the right, a climb to the heights of Suffield Moor—554 feet—is before us. Here is afforded a fine panorama of Scarborough and its Castle, with a wide expanse of the North Sea.

#### HACKNESS PARK.

On entering Hackness the road makes a rapid descent, and we pass through the lodge gates of the famous Park. At one spot a private stone bridge flanked with magnificent beeches crosses the road. Hackness Park in itself affords a delightful drive, as the road has the advantage of leading right through it, and is beautifully wooded, with grassy slopes on either side. Hackness Hall is the seat of Baron Derwent of Hackness. In 1910 the mansion was destroyed by fire, but has since been rebuilt on an enlarged scale. The park, the lake, and the gardens all combine to form a picturesque setting for the present mansion. The village is strangely reminiscent of "ye olden time," and is surrounded by wood-crowned hills. The church is Early English and full of interest. According to popular tradition, the Lady Hilda of Whitby Abbey returned to Hackness to end her days in acts of devotion and charity. An inscription in the chancel records that

in 679 "Lady Hilda of Royal descent" established a nunnery for eight nuns at Hackness. This building was destroyed by the Danes about 867, but was afterwards rebuilt as a retreat for four Benedictine monks. The church possesses several quaintly worded monuments connected with the Johnstone family, the ancestors of the present Baron. One of these, designed by Mathew Noble, a native of the village, consists of a female figure of Hope with an anchor at her feet. Another handsome monument was erected to the memory of Arthur Dakins in 1592 by his daughter, Lady Margaret Hoby, who also, with her husband, Sir Thomas Hoby, rests in peace in the chancel.

#### FORGE VALLEY.

The drive along Forge Valley from Hackness to Ayton, the most southerly point of the valley, comprises some four miles. The river Derwent is close to the road for almost the entire length. Steep slopes rise on either side, and these are clothed with trees and possessed of a rare, luxuriant flora. The Derwent has its rise on the lofty Fylingdales Moor, near Whitby. In its southward course it is joined by numerous minor streams, which have had their origin in some moorland valley or other. Near Hackness these valleys approach a common centre, and the Derwent is endowed with a vastly increased volume. From Hackness to Ayton the river is fairly straight, and, being so near the coast, one would naturally expect to see an outlet towards the sea. On the contrary, at Ayton the river takes an inland course as far as Ganton, at which point it forms nearly a right angle and runs on to Pickering and York. Thus it is that the Derwent keeps company with the railway for so great a distance between Scarborough and York. Forge Valley takes its name from an old monastic forge. This may have occupied a mid-way site, near the few cottages which are so noted a landmark to-day. The village of Ayton is divided into two parts by the river, which is crossed by a bridge of four arches. The solitary object of antiquarian interest connected with Ayton appears to be the square ruin in a neighbouring field. This is the remains of Ayton Castle, formerly an important structure. Its foundations extend over an acre, and it is known to have been the residence in 1500 of Lord Eure, who was connected with the Castle at Scarborough.

#### Whitby

is a charming seaport and watering-place, at once old-time and modern. In picturesqueness of situation it is equalled by few towns. Standing at the mouth of the Esk, one of Yorkshire's most beautiful rivers, it possesses peculiar merits. Whitby is smaller, quieter, and less conventional than Scarborough. Each town has its points of superiority, and, charming as the scenery is around Scarborough, Whitby can in this respect score over its rival. The town is built on both sides of the river: a connection is effected by a swing bridge which allows the passage of large vessels.

The earliest mention of Whitby occurs in the year 658, the date when the monastery of Streonshalh was founded by Oswy, the Christian King of Northumbria, who vowed that, if God gave him victory over Penda the Pagan, he would build a monastery and devote his daughter Hilda to the service of Christ. The Lady Hilda, who was of royal blood, became the first abbess, and ruled the institution with remarkable aptitude. The monastery grew to be very famous, and has been styled by old historians "the Westminster of the Northumbrian kings." On the death of Hilda, her pupil Ælfreda was appointed abbess, but after her death the monastery was ruled by abbots. The abbey was destroyed (as mentioned above), and remained in ruins until shortly after the Norman Conquest, when it was refounded by William de Percy. This was done at the instigation of one Reinfried, a soldier, who, it is said, was "pricked to the heart by the tokens of ruin and desolation." Reinfried was made the first prior under the new régime.

The original form of the abbey was that of a cross, consisting of a nave and its two aisles, a transept having aisles on the east side only, with a square lantern tower



HACKNESS HALL.

The Seat of Baron Derwent of Hackness.

in the centre, and a choir with aisles. It extended 300 ft. from east to west, and 150 ft. from north to south. Always exposed to the force of the elements, and to depredations from time to time, the noble edifice has considerably suffered.

Like Scarborough, Whitby did not escape the German bombardment in 1914. Some 200 shells were fired into the town, and the abbey was hit several times. A great part of the west front of this building, as well as the south side of the nave, was blown down in 1762. The tower, which was 104 ft. high, crashed in 1830 on the day preceding the death of George IV. Like most of our Gothic churches, it exemplifies several "styles" of architecture. The end of the choir and north transept are fine specimens of Early English work enriched with tooth ornament. The west end exhibits part of the tracery of a Perpendicular window, while other windows are in the Decorated and Early Pointed styles. Everywhere in the structure there is a similar variety, as well as much detail in the carving. Sir Walter Scott, in his "Marmion," has used Whitby Abbey for many scenes. To reach the abbey it is necessary to climb the "199" steps. On reaching the summit we observe a fine Saxon cross erected in 1898 in memory of Cædmon, the poet, who lived in Hilda's time.

St. Mary's Parish Church is likewise approached by the same flight of steps. Externally it lacks architectural beauty, but it possesses many curious features within. The church owes its origin to one of the abbots of the early twelfth century, who had it erected for the benefit of the townspeople in order that the monks might enjoy the exclusive use of the abbey. A stage of the tower has been removed, and certain doorways and windows have been closed. In 1905 the chancel was restored, and in connection with this work certain dis-

coveries were made, including three or four aumbries, one or two piscinæ, and an ancient window. The manor pew takes the form of a gallery thrown across the chancel. The three-decker pulpit with canopy is one of the best specimens of its kind. An air of incongruity and quaintness is afforded by the high box pews, the ancient oak altar, the corkscrew pillars in the chancel, and the hanging brass candelabra. In the porch a monument in the form of a pagan temple commemorates a local heroic lifeboat deed. The views from the churchyard are superb. On the other side of the river stand the modern church of St. Hilda and several fine Nonconformist churches.

The Westcliff Spa and Promenade is, during the season, the popular rendezvous. An orchestra plays twice a day. Very beautiful sunsets can be seen from this part, and these are sometimes accompanied by unusual phenomena. Whitby is one of two places on the coast where the sun can be seen to rise and set in the sea on the same day. Close at hand is a bronze statue of Captain Cook, the famous Yorkshire navigator, who was apprenticed to a Whitby shipmaster. The museum overlooking the West Pier approach is specially rich in geological specimens. From an artist's point of view, Whitby and its surroundings stand unsurpassed, and devotees of the easel and camera form a goodly proportion of the visitors.



THE CHURCH, HACKNESS.

The jet industry is still carried on in the town, but changes of fashion and foreign competition long ago robbed it of its former prosperity. Visitors are invited to inspect certain of the workshops. Four lines of railways radiate from Whitby, and delightful panoramas are afforded on every hand.

The Conference party will be welcomed on arrival by Sir Richard Robinson, J.P., who, as a past Vice-President of the Conference, needs no introduction to readers of THE CHEMIST AND DRUGGIST. Visitors, and especially those from London, may be reminded that Sir Richard has a brother, Mr. W. P. Robinson, Ph.C., living in retirement at Whitby. Mr. W. P. Robinson was apprenticed at Waterloo, Liverpool, and was afterwards an assistant with the late Mr. G. Spratt Taylor, Ph.C., London. He passed both the Minor and the Major examinations in 1877, and four years later commenced business at Wandsworth Common, S.W. In 1885 he took over the old-established business of the late James Deane, son of Henry Deane, a former President of the Pharmaceutical Society, at Clapham, S.W. In 1911, owing to unsatisfactory health, Mr. Robinson sold this business and retired to Whitby. During two years of the war he voluntarily managed the business of Mr. Tindale, Baxtergate, who had joined up.



THE BRIDGE, HACKNESS PARK.

## Some Whitby Pharmacies and their Proprietors.

By way of preface to the following notes on Whitby chemists, it may be mentioned that there is in the trade a firm belief in early closing. During the winter the pharmacies are closed at 5.30 p.m., and in the summer at



MR. T. H. BRAND,  
Manager of S. L. Smith, Ltd.

6 p.m., only one shop in town remaining open later.

Mr. John Brooks, 15 Flowergate, took over his business in 1879 from Mr. Hugh Scott Breckon. He is now associated in the business with his son, Mr. Percy M. Brooks. It will be seen from the succeeding paragraphs that two of his apprentices have returned to the town to open on their own account.

Mason's Drug Stores, Ltd., 61 Baxtergate, was founded in 1904 by the late Mr. John Mason at 25 Baxtergate. After his decease in 1911, it was successfully continued by his widow, who removed

in 1914 to the present more commodious premises. In 1916 Miss Phyllis Mason, Mrs. Mason's daughter, having passed the Qualifying examination, returned to assist her mother in the business. This is one of the very few pharmacies entirely run by women.

Mr. William Ruff, Skinner Street, served his apprenticeship with Mr. J. Brooks, Flowergate, and commenced business in the Westcliff Pharmacy in 1898. Mr. Ruff is a member of the North Riding Pharmaceutical Committee.

The business of S. L. Smith, Ltd., has been in existence considerably over seventy years. It was first owned by the late Mr. T. K. Robinson, chemist and antiquary, then by the late Mr. John Frank, Ph.C., the present proprietors taking possession in 1911. The management of the business is under Mr. Thomas H. Brand, who qualified from the Liverpool School of Pharmacy in 1916. One of the company's specialities is the famous Whitby toffee.

Mr. Charles Tindale, 78 Baxtergate, was apprenticed in 1905 to Mr. J. Brooks, Flowergate. Four years later he became an assistant with Mr. R. W. Brownlow, Melton Mowbray, and in 1911 he passed the Qualifying examination. Three years of management to S. L. Smith, Ltd., Whitby, followed, and then Mr. Tindale purchased his present business, which had been founded by his great-uncle, Mr. J. Stevenson. During the war Mr. Tindale served as a sergeant-dispenser for two years, and (as already mentioned) the pharmacy was voluntarily conducted during that time by Mr. W. P. Robinson, Ph.C.

The business of Ward & Puckrin, 28 Baxtergate, was established in the year 1881 by Mr. William Wright Ward. Some twelve years later he was joined by Mr. Thomas Edward Puckrin, the present proprietor.

### On the Way to Bridlington.

An event fixed for the last day of the Conference (June 17) is the visit to Bridlington by rail. Should time and circumstances permit, a halt might well be made at one of the stations on the return journey. The charming little town of Filey is too important to overlook in these

notes. Filey is but seven miles by road from Scarborough, although by rail, passing Seamer and Gristhorpe, it is a good ten miles. It enjoys a health-giving situation, with a keen, bracing air, and continues to attract the same visitors year after year. The residential population is 3,500. The pharmaceutical needs of the town are met by Mr. John Otley, Murray Street, and by Mr. C. M. Snow, F.S.M.C., Central Pharmacy. Mr. Snow served his apprenticeship at Malton, and afterwards gained experience in London. Having qualified (in 1885), he had three years in Paris and six months in Marseilles. Nineteen years ago he settled in Filey, where he has established a successful business.

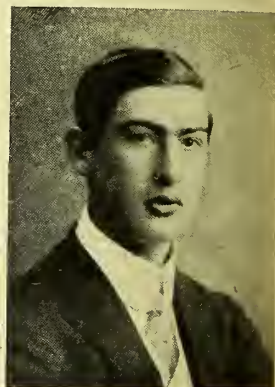
A delightful part of the town, known as The Crescent, commands a view of the full extent of Filey Bay. The cliffs below are well laid out as a public pleasure garden. Filey prides itself on a fine promenade formed by a massive sea-wall. This wall is a pretentious enterprise for so small a town, but was no doubt a scheme forced on the borough in order to secure stability to its foundations. The sands are very firm and extensive, and in this respect

are unequalled in the kingdom. In fact, motor-car races have been held on this novel course with comparative success. The Church of St. Oswald is an ancient structure built in the days of King Stephen by monks associated with the Priory of Bridlington. The vicar is Canon Cooper, whose walking tours to Vienna, St. Petersburg, the Riviera, and other distant places have made him universally known as "the walking parson." The Brigg at Filey is the real natural feature of the Bay. This far-stretching, rocky promontory is best seen at high tide when a north-easter prevails. At low tide the Brigg is comparatively dry. Visitors can clamber over the slab-shaped rocks and examine the cave-like openings, the result of the scooping action of the waves.

Bempton and Speeton are villages of peculiar interest in the month of June.

This is the season when the collecting of sea-birds' eggs is carried on. The cliffs at Bempton are nearly perpendicular, and exceed four hundred feet in height. This is one of the few parts of our islands where the hazardous occupation of collecting eggs by means of individuals descending on ropes is still practised.

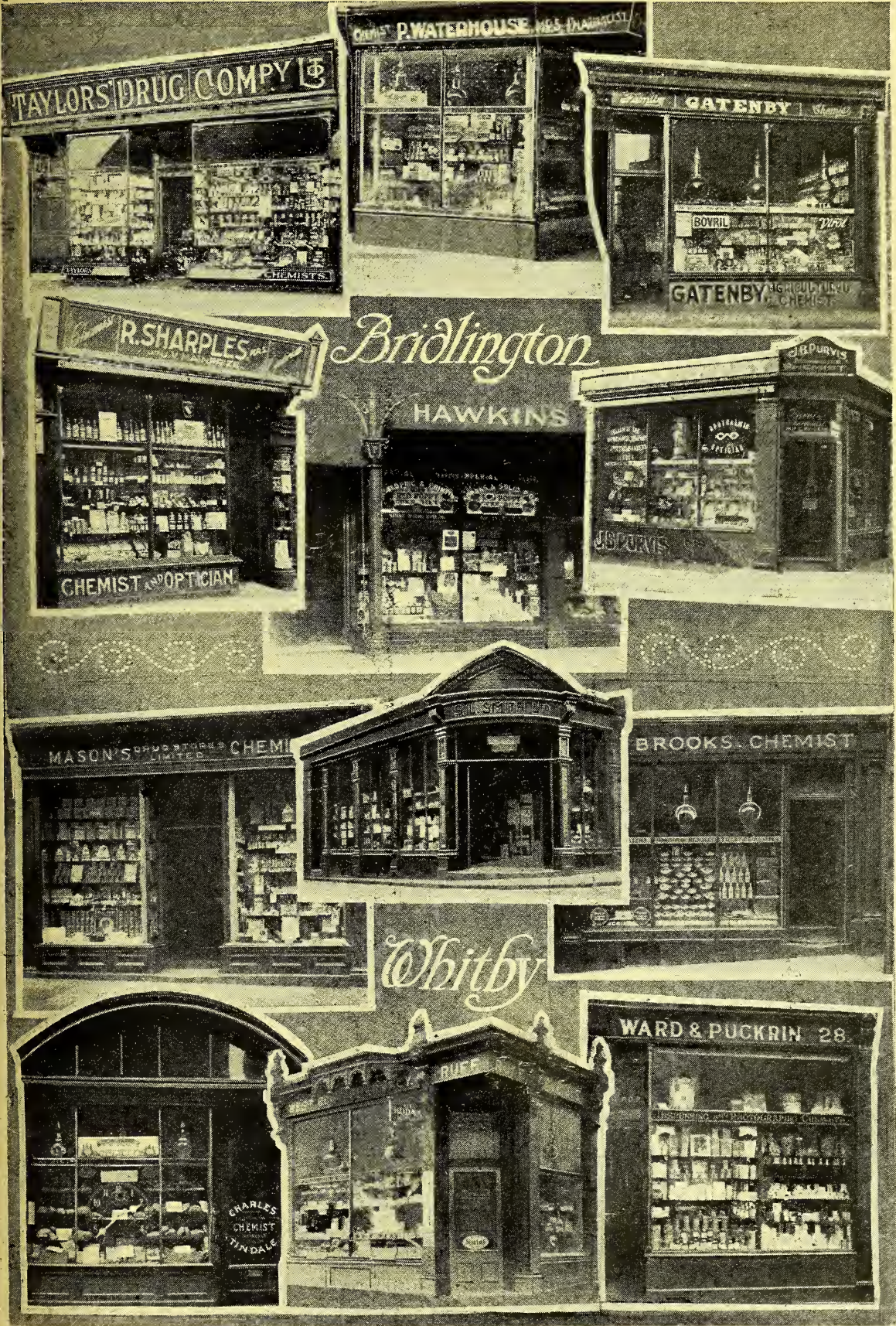
Flamborough is likewise popular as a rendezvous for strangers staying in the neighbourhood of Bridlington or Filey. The station is two-and-a-half miles from the village. A large section of the headland is almost cut off from the mainland of Flamborough by a large entrenchment known as Danes' Dyke. The visitor should commence his explorations at the North Landing. Here may be seen Robin Lythe's Cave, the most remarkable of the many caves near by. The roof of this cave at the central part is fifty feet high. The famous lighthouse is eighty-five feet high, 214 feet above sea-level. The church at Flamborough, like that at Filey, is dedicated to St. Oswald. Its registers date from 1564, and in a field adjoining the church there is the ruined fourteenth-century keep of the Constables of Flamborough.



MR. CHARLES TINDALE



MISS PHYLLIS MASON,  
(Mason's Drug Stores, Ltd.)



Whitby and Bridlington Pharmacies.

## Bridlington.

Delegates who are able to afford the time should certainly visit Bridlington, a bright, cheerful town with an interesting history, and, withal, a town in which pharmacists have figured prominently among its most useful citizens. Situated some twenty miles south of Scarborough, the town nestles on the shores of a beautiful bay, under the shelter of the far-famed Flamborough Head. Since its incorporation in 1899, Bridlington has risen by leaps and bounds. It caters lavishly for visitors, providing music, recreation, amusement, and every creature comfort. The municipal authority has adopted a progressive policy, missing no chance to proclaim the climatic and other natural advantages of the place. The town is in friendly competition with Scarborough, and the rivalry is good for both places. The fact that Bridlington this year commenced its full municipal musical arrangements as early as March is but one instance of the effort to extend the season.

Bridlington's historic associations are many. It was here, in 1642, that Henrietta Maria, Queen of Charles I., landed, escorted by Van Tromp and seven Dutch men-of-war. Her stay in the town was brief and uncomfortable, on account of Admiral Batten, the Parliamentary Commander, who opened fire on the house in which the Queen was quartered. Her Majesty became somewhat perturbed, and fled on foot to seek refuge in a ditch. It is when we visit the old town about a mile inland that the antiquary or the historian is well repaid. The Priory Church is of minsterlike proportions and design: since 1850—chiefly under the direction of Sir Gilbert Scott—no less than 70,000l. has been spent in restoring and beautifying this landmark. The west front is the most imposing portion of the exterior, although one of the towers is yet incomplete. The stained glass in the central window is rich, in colour and, though modern, enhances the fine tracery work. The feature of the interior is the lofty nave of ten bays with clustered twist columns on either side. The Priory was founded in the time of Henry I., and for centuries was occupied by canons of the Order of St. Augustine. It became a very powerful and wealthy organisation. Events following the Pilgrimage of Grace led to a considerable portion of the church being reduced to ruins. The last prior, William Wode, was executed in 1537 at Tyburn. The famous Bayle Gate, which dates from the fourteenth century, was, however, spared. Its pointed archway is adorned with unique recessed mouldings. The Bayle Gate is used now as the museum of the Augustinian Society. It is believed that the room above the gateway was, in olden times, the meeting-place of the priors' manorial court. Quite recently a valuable collection of ancient bronze mortars and pestles has been given to the museum, and, through the influence of the local Committee, these will be on exhibition during the Conference week.

Retracing our steps to the central part of the town, all roads lead to Prince's Parade, of which every inhabitant of Bridlington is justly proud. Many thousands of pounds have been spent within the last quarter of a century in building, completing, and perfecting the pleasure grounds and pavilions which form part of the scheme to make every visitor happy. The area of the enclosure is 10,000

square yards, and is tastefully laid out with flower-beds and well-kept lawns. The two pavilions and café afford accommodation for 6,000 people. Good music is always assured to pleasure-seekers, whether sitting within view of the beach or under the shelter of floral verandahs. The Grand Pavilion is the centre of varied attractions and entertainments, and so popular has this become that the town has decided to offer similar attractions elsewhere. The Spa, which fronts the sea for fully 200 yards, is to the south of the harbour. In the Spa grounds we find the spacious Dome (with a roof of glass), accommodating 3,000 persons. A high-class orchestra plays here during seven months of the year. There is also, as an integral part of the Spa, the Opera House, which enjoys visits from good London companies. Near the harbour we encounter another amusement place, the Victoria Hall. The harbour is excellently contrived. Its two stone piers are fashionable promenades, and every advantage is taken of the utility of the harbour. Over 180 rowing-boats are licensed for hire, as well as sixty pleasure-cobbles. The facilities enumerated in connection with the Scarborough municipality apply also to Bridlington in regard to bathing, motoring, fishing, golf, tennis, and other pastimes.

Conference delegates will be assured of every assistance

and information from either Mr. J. V. Mainprize or Mr. R. Sharples, who are active members of the local Committee, and from whom the writer of these notes obtained the following information concerning pharmacists. Forty years ago there were only four chemists' shops to meet the requirements of the fashionable portion of the town and its visitors. One, carried on by Headley & Son, was the General Post Office; it has vanished into oblivion. Another, which had as its proprietor the late Mr. John Dickens, ultimately became absorbed in the present Taylors' Drug Stores, and occupies a commanding position in Prince Street. The third was the quaint old shop of Mr. Christopher Forge in King Street, which in 1882 passed into the hands of



THE PRIORY CHURCH, BRIDLINGTON.

Mr. J. V. Mainprize, who in a short time pulled down the whole of the building from King Street and Chapel Street and built the present up-to-date commodious premises. This became a most successful business, from which he retired in 1913. Mr. Mainprize's name is well known, not only to a large number of Bridlington visitors, but also in the pharmaceutical profession and the municipal world. Mr. Mainprize has been actively associated with the public affairs of this rising town—as chairman of the school board, as a member of the urban district council, and subsequently, as a member of the borough council. In Coronation year (1910) Mr. Mainprize filled the mayoral chair with dignity to the office and satisfaction to his *confrères*. This necessitated his presiding over numerous important committees and devoting an immense amount of time to the public welfare. His name is equally well known throughout the East Riding of Yorkshire, this being his thirtieth year of service on the county council. In 1916 Mr. Mainprize was honoured by being made a county alderman and magistrate. In many other spheres, including the Primitive Methodist Church, his time and energies are absorbed; and, though now retired from business, he is still one of the most active of Bridlington's citizens.

Mr. Robert Sharples, chemist and druggist, 23 King Street, was apprenticed to Mr. R. Lord Gifford, Ph.C.,

Blackburn, in 1892, and after completing his term of four years went to Birkenhead, where he made the acquaintance of Mr. James Grier, M.Sc., now of Manchester University. After studying at the Liverpool School of Pharmacy, and subsequently at the Manchester College of Chemistry and Pharmacy, he qualified in 1897. The principal of the Manchester College was at that time Mr. Charles Turner, Ph.C., and Mr. F. Pilkington Sargeant, Ph.C., now Vice-President of the Pharmaceutical Society, was a member of his teaching staff. After further experience in Birmingham and at Otley, Mr. Sharples commenced business on his own account in Leeds. Seven years ago he removed to Bridlington, where his pharmacy occupies a central position. Mr. Sharples is a member of the town council, serving on eight of its committees, and is also President of the Bridlington Ratepayers' Association. He and his wife are in frequent request as vocalists, and the remainder of his spare time is devoted to motoring, of which he has acquired a comprehensive knowledge enabling him to put right almost any defect that may develop *en route*. His trips include runs to places so distant as London or Blackpool. During the war he joined the Motor Transport Volunteers, and gave frequent lectures on motor mechanics.

Mr. John B. Purvis, Ph.C., 41 The Promenade, served a five years' apprenticeship in South Shields, his native town, to the late Mr. John Noble. He passed the Major

examination in 1885, and subsequently qualified as a Fellow of the Spectacle Makers' Company and received the freedom of the City of London. After filling situations in London, Southsea, Ryde, and Harrogate, Mr. Purvis purchased his present business in 1887. For several years he organised and carried on classes for the St. John Ambulance Association, and, more recently, became a member of the East Riding Insurance Committee. The chief part of his energy, outside his own business, has been devoted to the service of his country. In



MAJOR JOHN B. PURVIS, T.D.,  
Bridlington.

1900 he joined the 2nd V.B., East Yorkshire Regiment. After passing twice through a course at the School of Musketry, Hythe, with a "Distinction," he was appointed musketry instructor to his battalion. He entered the Territorial Force on its formation, and was actually in camp when the great war broke out. In March 1915 he was gazetted major, and in the following month he went out to France in the 50th Division (Northumbrian). A few days after landing at Boulogne, Major Purvis's battalion was rushed up to the Front in motor-buses to help to fill a gap, five miles wide, caused by the first of the Hun gas-attacks. There were at that time no gas-masks of any kind, and what Major Purvis called a very "sticky" time resulted, sixty-two of his men being killed or wounded during the first two days. Christmas Day of the same year was spent by him waist-deep in water in a trench, with snipers' bullets uncomfortably close. Major Purvis's younger son, Captain George Purvis, M.G.C., who had qualified as a chemist and druggist, was killed in June 1917 during the British attack on the Wytschaete-Messines Ridge, after being recommended for the Military Cross. His elder son, Lieutenant J. S. Purvis, served in the 5th Yorks, and in civil life is a Master of Arts. As gas-warfare developed, Major Purvis was appointed to supervisory work in that department, and continued this duty until his return to England in 1918. He was then appointed D.G.O. to the 69th Division: from first to last he trained about 60,000 officers and men, retiring in 1919 with his



ALDERMAN J. V. MAINPRIZE, J.P.,  
Pharmacist Mayor of Bridlington in 1910.

rank, the Territorial decoration, and a mention by the Secretary of State for War. During his absence from home Mrs. Purvis gallantly "carried on." He is honorary local secretary for the Officers' Association and President of the Buckrose Pharmacists' Association.

Another name well known in pharmacy is that of Mr. Philip Hawkins, who served his apprenticeship with Mr. Mainprize. Shortly after qualifying (in 1899), Mr. Hawkins opened a business between the old town and the Quay. Mr. Hawkins is secretary of the East Riding Association and of the Pharmaceutical Committee and treasurer of the North-Eastern Federation. He was a member of the Local Associations Executive in 1919, and more recently served on the provisional executive of the Retail Pharmacists' Union.

Mr. H. J. Jackson, Ph.C., carried on, concurrently with Messrs. Mainprize and Purvis, a fine business in Prince Street, near the Pier, and was a highly esteemed citizen. He retired from business about 1913 to take up residence in his native town, Bawtry.

The older part of Bridlington has undergone considerable change, but farmers still gather in the open market on Wednesdays and Saturdays. In this part the names of three pharmacists of the older school are well remembered: Mr. W. Smith, Mr. J. Smith, and Mr. Gatenby. These have all passed away; the business of the last-named, however, is still carried on by Mr. Gatenby, jun., whose connection among agriculturists is extensive.



MR. METCALFE SNOW'S PHARMACY, FILEY.

## Summer Outings.

### Manchester Assistants' Outing.

THE Manchester and Salford Chemists' Assistants' Association held the first ramble of the season on May 20. About a score joined the President (Mr. Pugh Roberts) at Hazel Grove, and walked by field-paths to Disley, where a halt for refreshments was made. After lunch the way led over Bowstone Gate and through Lyme Park, the party returning to Disley, where tea was thoroughly enjoyed. After photos had been taken, a stroll through Middle Wood brought a pleasant day to a close.

### Visit to Cartwright's.

ABOUT thirty of the Manchester, Salford and district chemists, on May 18 and 19, were the lucky recipients of an invitation to travel some fifty or sixty miles by motor, to be entertained to lunch and tea, and to be conducted over the up-to-date pharmaceutical speciality works of W. B. Cartwright, Ltd., Rawdon, near Leeds, where they were received by the directors and officials of the company. After lunch the party was conducted through the various departments and shown the latest methods of production and the packing of their well-known specialities. The company were heartily thanked for their hospitality on an enjoyable day's outing.

### Birmingham Chemists' Garden Party.

ON behalf of the Pharmaceutical Society's Benevolent Fund, the President of the Birmingham Pharmaceutical



THE PRESIDENT AND HIS GUESTS.

Association (Mr. J. W. Atkinson) held an American tea and garden party on May 18 at his residence, The Oaks, Trinity Road, Birchfields. The party numbered about sixty persons, and included, besides Birmingham members and friends, Mr. and Mrs. W. H. Lester, Nuneaton, and Dr. F. D. Spencer, Stratford-on-Avon. Various games were indulged in—bowls, tennis, croquet, clock golf, etc.—and all the visitors brought articles for sale among the party. An excellent tea was provided by Mrs. Atkinson, and was served upon the lawn. The total takings will go to the Benevolent Fund, and are expected to amount to about 17l.

**BREAKDOWN OF STANDARD BOOT SCHEME.**—A sub-committee of the Standing Committee on Trusts has issued a report stating that the scheme for the sale of "standard" boots and shoes has broken down, owing to the unwillingness of the retail trade (and especially of multiple-shop proprietors) to assist in making it a success. The profit allowed to retailers under the scheme was 27½ per cent.

THE JAPANESE PHARMACOPŒIA, which has just been issued by the Japanese Government, adopts some native substitutes for herbs, roots, or other articles of foreign origin, cinnamon bark as substitute for cassia bark, and camellia oil for olive oil. In some cases Japanese goods are used absolutely instead of articles of foreign origin. One of these instances is agar-agar. The standard of quality is also raised, including among other articles quinine hydrochloride, acetylsalicylic acid, diastase, and some other articles.—New York "Drug and Chemical Markets."

## Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

### PARLIAMENT REASSEMBLES.

The House of Commons met on May 24 after the Whitsuntide holidays. One of the first Ministerial announcements (in answer to a question by Mr. Kiley) was the proposed increase in postal rates (see p. 49).

### GERMAN REPARATION (RECOVERY) ACT.

The Chancellor of the Exchequer (Sir Robert Horne) informed the House of Commons on May 24 that the amount received by the Commissioners of Customs and Excise under the German Reparation (Recovery) Act up to May 21 inclusive was 19,000l. In some cases the British importers have paid the German exporters the full invoice value of the goods. It was further announced that the 26 per cent. to be collected under the Act will be levied in the same way as the 50 per cent. has hitherto been collected.

### SAFEGUARDING OF INDUSTRIES.

Mr. Lyle-Samuel, on May 24, asked the President of the Board of Trade whether the Board has drawn out a list of the articles to which the second resolution for the Safeguarding of Industries would apply under paragraphs (a) and (b), respectively; and, if so, whether he will issue this list before the report stage of the resolution is taken?

Sir P. Lloyd-Greame (Secretary, Overseas Trade Department) replied that it will be for the Committees to be set up under the Safeguarding of Industries Bill to advise to what articles the provisions of this resolution should be applied.

## Bankruptcy Report.

**Re Sydney G. Clayton**, wholesale and retail perfumer, 3 Rushey Green, Catford, and 298 High Street, Lewisham. The following are creditors: Richards, J. M., & Sons, Ltd., London, 72l.; Pears, A. & F., Ltd., London, 45l.; Atkinson, J. & E., Ltd., London, 65l.; Piesse & Lubin, Ltd., London, 37l.; Osborne, Garrett & Co., Ltd., London, 25l.; Hovenden, R., & Sons, Ltd., London, 24l.; Lever Bros., Ltd., London, 19l.; Gibbs, D. & W., Ltd., London, 17l.; Quelch, H., & Co., London, 17l.; Parke, Davis & Co., London, 17l.; Price's Patent Candle Co., Ltd., London, 15l.; Raymet & Co., Ltd., London, 15l.; Pond's Extract Co., London, 12l.; Palmolive Co., Ltd., London, 10l.; Yardley & Co., Ltd., London, 11l.; Icilmia Trading Co., London, 10l.; Wright, Layman & Umney, Ltd., London, 10l.; Margerison, J., & Co., Preston, 13l.; Erasmic Co., Ltd., Warrington, 50l.

## Coming Events.

### Monday, May 30.

Royal Society of Arts, John Street, Adelphi, London, W.C. 2, at 8 P.M. Sir Kenneth Goadby on "Industrial Disease and Immunity."

### Tuesday, May 31.

South-West London Chemists' Association, Westminster College of Pharmacy, 190 Clapham Road, London, S.W., at 8.30 P.M. Annual meeting.

### Wednesday, June 1.

Pharmaceutical Society of Great Britain, 16 Bloomsbury Square, London, W.C., at 11 A.M. Council meeting.

### Thursday, June 2.

The Chemists' Dental Society, 17 Bloomsbury Square, London, W.C., at 2.30 P.M. Committee meeting to elect new secretary, etc.

Chemical Society, Burlington House, Piccadilly, London, W., at 8 P.M. Sixteen papers, including "Derivatives of sulphur in commercial salvarsan (Part I)," by Mr. H. King; "Analysis of cresol disinfectants," by Mr. J. C. Thomlinson.

SOUTH-WEST LONDON CHEMISTS' ASSOCIATION.—The annual summer outing will be a motor-charabanc tour, starting from The Plough, Clapham, at 2 P.M., on June 8. Tickets (10s. 6d. each, including tea) from Mr. Wells or Mr. E. A. Atkins.

## Birth.

**SIMPSON.**—At the Medical Hall, Dungiven, on May 13, the wife of John Simpson, R.D., of a son.

## Marriages.

**BARNES—ATKINSON.**—At Mansfield Woodhouse, on May 18, Walter Barnes, chemist and druggist, Forest town, Mansfield, to Adelaide, daughter of Mr. John Atkinson, farmer, Sutton Bridge, Lincolnshire.

**BRANSBY—HUCK.**—At The Friends' Meeting House, on May 13, Charles Kirby Bransby, M.P.S., Wilmslow, to Daisy D. Huck, The Anchorage, Queen's Road, Minehead.

**MURRAY—M'MILLAN.**—At the Douglas Hotel, Glasgow, on May 3, by the Rev. J. T. Forbes, D.D., assisted by the Rev. A. M'Millan, Baillieston, Robert Murray, pharmacist, to Grace, only daughter of Mr. Anthony M'Millan, 46 Caldercuilt Road, Maryhill.

## Deaths.

**DAKIN.**—At his residence, Brittany Lodge, Edwardes square, Kensington, London, W. 8, on May 23, Mr. Joseph Harrison Dakin, governing director of Dakin Brothers, Ltd., wholesale druggists, 82 Middlesex Street, E. 1, aged seventy-one. The business now known as Dakin Brothers, Ltd., was founded in 1820 by Mr. William Cryden in Abchurch Lane. Mr. (afterwards Sir) Thomas Dakin, who entered the firm as an assistant, quired it in 1845, and was joined by his brother Joseph in 1850. Mr. Thomas Dakin retired in 1867, and, subsequently becoming Lord Mayor of London, was knighted in 1871. He died in 1889. Mr. J. Harrison Dakin, son of Mr. Joseph Dakin, joined as a partner in 1865, and in 1882, on the death of his father, took over the full management of the business. From Abchurch Lane the firm moved to Creechurch Lane, and in 1901 to the present premises in Middlesex Street. The business was in 1907 converted into a limited company. Mr. Dakin, who had been in ill-health for some years past, is survived by a widow, two sons, and three daughters. One of the sons, Mr. Geoffrey Dakin, is a director of the company.

**LEITCH.**—Recently, Mr. John W. Leitch, B.Sc., founder of John W. Leitch & Co., manufacturing chemists, Milnsbridge, and chairman of Lankshair, Wickstead & Co., Ltd., manufacturing chemists, London and Woodley. For many years before the outbreak of war Mr. Leitch had established processes for the manufacture of dyes and intermediates, and for concentrating sulphuric acid. During the war large quantities of trinitrotoluene were manufactured at Milnsbridge, and Mr. Leitch also supervised the erection of sulphuric acid plant in Manchester for the Government. His health broke down in 1916, but he subsequently recovered sufficiently to resume his activities, and in 1919 was appointed head of a mission sent to the Board of Trade to study some of the dye-works in the occupied area of the Rhine. Mr. Leitch was a member of various public bodies, upon which he did useful work.

## Wills.

**MR. SAMUEL GOODHALL COX, Ph.C.,** 52 London Road, Leicester, who died on December 31, left estate of the gross value of 3,683*l.* 15*s.* 9*d.*, with net personality 60*l.* 16*s.* 2*d.*

**MR. ARNOLD WILLIAM REINOLD, F.R.S.,** East Cosham house, Cosham, Hants, formerly Professor of Physics at the Royal Naval College at Greenwich, who died on April 11, left estate of the gross value of 3,392*l.* 12*s.* 4*d.*, with net personality 3,338*l.* 15*s.* 4*d.*

## Personalities.

**MR. S. COHEN,** of the Pacific Chemical Co., 150 Nassau Street, New York, has arrived in London, and can be addressed c/o the Keene Co., 52 Gray's Inn Road, W.C. 1.

**MR. DAVID BOWLAS,** chemist and druggist, who represents Meggeson & Co., Ltd., London, S.E., in the North of England and in Scotland, has removed from Poulton-le-Fylde to 14 Falkner Square, Liverpool.

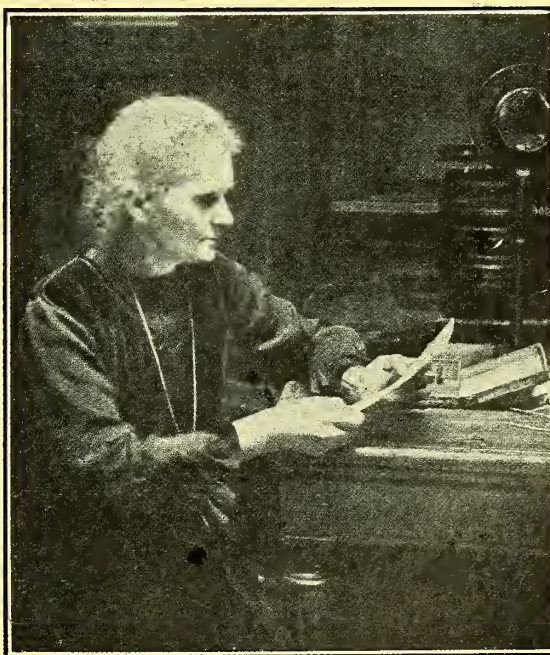
**MR. HOLTON,** who represented Beatson, Clark & Co., Ltd., Rotherham Glassworks, Rotherham, has retired, and the company have appointed Mr. W. G. Boyd, pharmacist, and Mr. J. W. Hollins as representatives.

The following appointments, among others, were made by the Senate of the University of London on May 25: Mr. R. R. Gates, M.A., B.Sc., Ph.D., to the chair of botany; Mr. William Wilson, D.Sc., Ph.D., to the chair of physics.

**MR. J. MACVIE HILL, F.C.S.,** Ipswich (Crookes' Laboratories, London, W.C. 1), has recently attained to the degree of B.Sc. For several years past Mr. Macvie Hill has represented pharmaceutical interests in the Midlands and East Anglia, and is well known to the majority of pharmacists and medical men in these areas.

**DR. FREDERICK B. POWER** was on May 9 presented with a gold medal by Mr. Henry S. Wellcome, founder of the Wellcome Chemical Research Laboratories, in commemoration of his service for eighteen-and-a-half years as director of the laboratories, and in recognition of his many valuable researches in organic chemistry. The presentation took place at the Cosmos Club, Washington, D.C.

**MADAME CURIE,** the eminent scientist and conjoint discoverer, with her late husband, of radium, was presented



MME. CURIE.

with a gram of the element (about 80,000*l.* value) on May 20, on behalf of the women of the United States, at the White House, Washington, U.S.A. The presentation was made by President Harding, and Mme. Curie was accompanied by her two daughters. The contract for the supply of the radium was awarded, by the Marie Curie Radium Fund Committee, to the Standard Chemical Co., Pittsburg. Four tenders were made. The National Institute of Social Sciences conferred a gold medal on Mme. Curie at a dinner given in her honour.

## Trade Notes.

**HOUSEHOLD EMBROCATION**, a popular line during the outdoor sports season, is reduced in price. The advertisement of The Standard Tablet Co., Ltd., Hove, gives the particulars.

**MENTHOLATED VASELINE**.—Chesebrough Manufacturing Co., 42 Holborn Viaduct, London, E.C. 1, give in their advertisement the wholesale and retail prices of mentholated vaseline.

**DR. WILLIAMS' FIT-TITE** is a preparation for ensuring the adjustment of dental plates in the mouth. The American Drug Supply Co., Ltd., 6 Northumberland Avenue, London, W.C. 2, are the British agents.

**AMAMI NAIL STONES**.—Prichard & Constance (Wholesale), Ltd., 469 Holloway Road, London, N., have increased the retail price of Amami nail stones to 1s., but the wholesale price remains the same as before.

**SANAGEN**.—Sanagen Co., Ltd., have now removed to larger premises at 8a Kennington Park Road, Kennington, London, S.E. 11. Sanagen nerve tonic food is a new speciality which the company advertise in this issue with their other goods.

**ENSIGNETTE AGENCIES**.—Houghtons, Ltd., 88-89 High Holborn, London, W.C. 1, are to advertise Ensignette cameras on the front page of "The Daily Mail" on June 24. The company offer to add the names of dealers who stock Ensignettes; an order form is supplied on application.

**WHITE FLINT DISPENSING BOTTLES**.—I. Isaacs & Co., 106 Midland Road, St. Pancras, London, N.W. 4, have shown us a sample of the white flint flat dispensing bottles which they are now supplying. These are either plain or graduated, and are well-made bottles with round shoulders and well-finished lips.

**SYRUP OF FIGS**.—Davies, Sons & Co. (Derby), Ltd., manufacturing chemists, Bridge Street, Derby, are specialising in packed syrup of figs, and give particulars of this preparation in their announcement. The company have sent us a sample to show the style of packing, and also window-bills. The labels are in sage-green and brown, and the bottles are enclosed in well-decorated cartons.

**ELECTRIC BATTERIES**.—Siemens Brothers & Co., Ltd., Caxton House, Westminster, London, S.W. 1, have completed the publication of a series of four post-war editions of their catalogues of primary cells and batteries: No. 600, Primary Cells and Batteries; No. 531A, Leclanché Fluid Cells and Batteries; No. 531B, Electric Cells and Batteries; No. 537, Dry Cells and Batteries. No. 600 is the main catalogue of primary cells and batteries. It consists of eighty-eight pages of particulars relating to the principal dry and fluid primary cells and batteries manufactured at Siemens Brothers' Woolwich works. This catalogue is an enlarged edition of the pre-war catalogue of these products. Catalogues Nos. 531A and 537 are made up to some extent of excerpts from the principal catalogue, and No. 531B has been prepared with a view of meeting the needs of those dealers in and users of these cells who are less widely acquainted with the technical side of the subject and are interested mainly in the more generally employed types of cells. Copies of the catalogues can be had on application.

## Business Changes.

THE business of the late Mr. Charles Hare, chemist and druggist, 36 Liverpool Road, Birkdale, Southport, is being continued by his widow.

MR. F. W. BOON, chemist and druggist, late of Gainsborough, has purchased the business of Mr. James Irvine, chemist and druggist, Market Place, Kendal.

## Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1921, p. 300.

(From the "Trade-marks Journal," May 1, 1921.)

"WYNOR"; for medicinal chemicals (3). By J. Watson & Sons, Ltd., Whitehall Road, Leeds. 413,126. (Associated.)

"SUPEARLA"; for tooth powder (48). By A. J. Rowe, 2 Denmark Street, Barnsbury, London, N.1. 401,341.

"SASU"; for a tooth powder (48). By W. Congreve, New Club, Imperial Square, Cheltenham. 409,542.

"BARKURA"; for toilet preparations, etc. (48). By Thellex Supply Co., Ltd., 252B Gray's Inn Road, London, W.C. 1. 413,030.

"MITCHOLA"; for perfumery, etc. (48). By Lorimer-Marshall, Ltd., 12 Tower Hill, London, E.C. 3. 413,423.

(From the "Trade-marks Journal," May 11, 1921.)

"UMA"; for chemicals (1). By C. H. Sankey, 74 Cheap-side, London, E.C. 2. 412,087.

"GOLLIWOG"; for chemicals (1). By E. Cook & Co., Ltd., Bow, London, E. 3. 413,273.

"SPARTANITE"; for chemicals (1). By F. McNeill & Co., Ltd., 4 South Place, London, E.C. 2. 413,548.

"MALTINOL"; for medicinal malt preparations (13). By the Maltine Manufacturing Co., Ltd., 183 Acton Vale, London, W. 3. 408,879. (Associated.)

"EGDOLIN" and "EGDOLOID"; for medicines (3). By G. G. Wain and D. T. Davies, The Pharmacy, London Road, Bushey Heath, Hertfordshire. 411,932,933. (Associated.)

"ECLIPSE"; for surgical instruments, etc. (11). By J. G. Ingram & Son, Ltd., Hackney Wick, London, E. 9. 413,468. (Associated.)

"BIWIN"; for a beef-and-malt beverage (42). By the Liebig Medicated Wine Co., Ltd., Healey House, near Huddersfield. 409,320. (Associated.)

"APORTA"; for perfumery, etc. (48). By Gibson's Medical Hall, Ltd., 55 Donegall Place, Belfast. 413,310. (Associated.)

(From the "Trade-marks Journal," May 13, 1921.)

"ROBUR" and "POINTER"; for goods (2). By Peter Lunt & Co., 37-47 Hornby Street, Liverpool. 411,996; 412,601. (Associated.)

"OPOPIN" and "PANTRAX"; for pharmaceutical preparations (3). By Société Le Ferment, 13 Rue Parée, Paris 405,087/088.

"COLD SPRING"; for health salts, etc. (3). By W. P. Naismith & Co., Ltd., 145 Crownpoint Road, Glasgow B 403,030.

Fantastic figure device; for medicinal eucalyptus product (3). By Gillard Gordon, Ltd., 12 Bridge Street, Sydney New South Wales. 409,393.

## Information Department.

### INFORMATION WANTED.

Postal or telephone information with respect to makers or first hand suppliers of the undermentioned articles will be appreciated

S/255. Westwood's apiol and steel pills.	W/205. Scatterbuck for horses
B/255. Ceresin wax bottles.	N/185. Sportman's stramonium cigarettes.
A/255. Speton tablets.	T/205. Surgeon's rubber glove (actual British makers).
H/245. Mulheim's bath salts.	N/245. Mapson sanative salve.
H/255. Clear Water Rheumatism Tablets.	

### INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send stamped, addressed envelope to the Information Department, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C. 4.

Antilusin, B/215	"Jigger" for used razor blades
"Bordo-verme," A/255	D/205
De Graelle's hair tonic, O/235	Label-gumming machines, A/21
Demiracle corn cure, S/255	Liquid Synol soap, S/245
Dip-a-Dip fluid for bottle capping, L/205	Mayfair hat dyes, S/195
Dr. Gude's peptomanganate, D/44	Pollantin, M/205
Esanofele capsules, S/95	Rhinoculan cream, A/255
"Goco" goods, L/255	Ross's optical goods, J/185
Hayman's balsam of horehound, L/185	Seltzogenes, H/175
Suberit cork mats, A/175	Sumtache dry cleaner, H/245
Tenaline, M/205	
Ideal ear cap, R/205	

## Observations and Reflections.

By Xrayser II.

### The President's Address

to the general meeting was for the most part common form; he said the usual things in the usual way, taking as optimistic a view as possible of the Society's position and crediting the Council with as much as possible of its prosperity. There was the habitual word of warning as to its financial future, but this aspect of the annual report was lightly glided over, with the customary compliment to our vigilant treasurer. Considering that the period under review has been such "a critical and eventful year," we ought to be thankful that it is, in Mr. Weller's phrase, so "very capital" at the end of it. One or two things, however, in Mr. Neatherbat's review call for mention. Among these is his reference to the Local Associations' Executive and the test case. He did not express himself very clearly, but he seems to have said that under the advice of the Council the L.A.E. had been discontinued, or rather, had transformed itself into a new and independent body for the continuance of its work. This should mean that except as being independent of the Society the new body is the old one under a new name, and the method by which the transformation was effected gives colour to that idea. It is, however, hardly consonant with the President's scheme for the continuance of the local associations as branches of the Society.

### Another Point

in the address which calls for comment is the one so vigorously attacked by Mr. Noble. Here the President's position is indeed logically impregnable. Granting his premisses, his conclusion must be accepted; if the local associations are branches of the Society their members too must be connected with the Society, and they who object to this necessity should attack, not it, but the "branch" proposal which makes the necessity. This I say without prejudice to the President's argument that those who decline to join the Society cannot reasonably complain if they are excluded from an association that chooses to be a branch of the Society. This, again, seems to me an impregnable position. I have always opposed the idea of compelling pharmacists to join the Society, but that is entirely different from excluding them from a branch of a Society to which they do not belong. Moreover, the latter is really the act of the association, not of the Society, unless the junction of the two is compulsory, which is not contemplated. I would gladly see

### The Local Associations

as independent of the Society as they have ever been, but if the choice is between making them branches either of the Retail Pharmacists' Union or of the Society, then I vote for the latter. And I should like to say in reply to Mr. Atkins that their continuance even as branches of the Society would make the setting up of a branch of the Retail Pharmacists' Union in every town unnecessary. The associations would continue to discharge all their present social functions; they would still be a means of communication on all subjects between pharmacists; they would still keep alive the corporate spirit; they would still serve to disseminate both information and ideas; and would thus prepare the ground and provide an atmosphere for the Retail Pharmacists' Union. Of course, branches of the latter, if sufficiently numerous, could do all this for themselves, but why multiply them above what is necessary for the work delegated to the Retail Pharmacists' Union? I confess I spoke too hastily in saying that one or two in every section would be enough, but a branch alongside of every association is more than we want or could carry.

### The Use of Cat-skins

as a cure for headache recalls the old medical superstitions about the poisonousness of these animals. I do not think their skins were held poisonous, though their hair, if swallowed, was, but as their brains, blood, and breath were, the whole animal must have been more or less under suspicion. The well-known fact

that some people have a natural antipathy to cats, and will even swoon at the sight of them, was by some attributed to the poisonous property inherent in them, but is more likely, one would suppose, to have been the cause of their being thought poisonous. Cats' brains or blood were believed to have the property of sending anyone who partook of them mad, and would sometimes, it was averred, change them into the nature of a cat, so that they would mew, play, and scratch as cats do, and even, in private, catch mice. Their breath, too, was thought extremely dangerous. Alas for "the harmless, necessary cat" if this were true!

### A Correspondent

kindly refers me to Mr. Morley Roberts's "Warfare in the Human Body" for a suggestion of the origin of the words "pharmacy" and "pharmacie," and the connection of the latter with "Freemason." I regret that at present I have not access to the book, but, without knowing anything of Mr. Roberts's argument, I venture to say there is no more connection between "pharmacie" and "Freemason" than between Monmouth and Macedon, and that the derivation of "pharmacist" from the "pharmakon" of Homer is as certain as anything pertaining to philology can be. The origin of the term "Freemason" is not quite so clear—in fact (if I may venture to say so) the origin of Freemasonry itself seems to be rather obscure. But, leaving that, I do not see how our English word "Freemason" can possibly have been translated into French as "pharmacie," which, if I understand my correspondent, is what Mr. Roberts would have us believe. The connection of the latter with "pharmacie," "pharmaceutique," and other French forms from the same source is too obvious to need explanation, and there is really no room for such a suggestion as Mr. Roberts makes.

### "The French Disease"

(*Morbus Gallicus*) is one of those titles, honourable in their origin, which have been commonly misunderstood in an injurious sense. It does not mean the disease originating in or imported from France, though this was evidently the sense attached to it by the Elizabethan dramatists and later writers who so frequently use it or some equivalent for it, and one of whom says, "It is hard to say who imported the French Goods." On the contrary, it signifies the disease for which a specific was first discovered in France, though this, again, is probably a mistake, for the mercurial treatment of syphilis is supposed to have been first tried in Italy, and thence imported into France by Lanfranchi, the eminent surgeon, when he was exiled from the former country. It was, however, the surgeons of the South of France, says Dr. James J. Walsh, who "developed the empiric discovery of the value of this remedy," and so brought it into general use, with the result with which we are familiar.

### Mr. Carl Lumholtz,

in his recently published book, "Through Central Borneo," describes a great fishing expedition by the natives, in which he took part, and gives an account of the method of preparing tuba root for the purpose of stupefying the fish. Of the tuba plant itself he says only that it is a vine. The root is very long and light brown in colour; for convenience it is cut into short lengths and made up in small bundles, as described in your article of April 23; but on one occasion Mr. Lumholtz saw it used the day after it was gathered, when this, of course, was not necessary. The bark is the only part used. To detach it from the roots the latter are beaten on logs, the bark is then pounded in wooden troughs, and when of the required fineness is thrown into the river, in which a "white foam" presently forms "in large sheets, in places twenty-five centimetres thick, and looking much like snow." A photograph of a pool in the river Pipa shows the effect produced. The wintry stream between dark walls of tropical jungle has a strange appearance. The majority of the stupefied fish are caught in traps, but many are taken by hand or on the point of a spear before they reach the nets laid for them.

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## Editorial Articles.

### Whitehall Wins.

ELSEWHERE in this issue we print the Regulations under the Dangerous Drugs Act, which are to come into force on September 1. We have compared these with the Draft Regulations printed in the *C. & D.*, January 15 and, as will be seen, we have indicated the changes that have been made by printing the added matter in italics. In regard to both sets of Regulations (under Sections 5 and 7) it will be observed that provision is made for the possession of opium, morphine, heroin, cocaine, and ecgonine by persons in charge of certain research and instruction laboratories and by public analysts. As illustrating the careless manner in which these Regulations are drawn up, it is interesting to observe that the Imperial College of Science, Kensington, the most important science-teaching establishment in this country, does not come under the definition of the institutions that may possess these so-called "dangerous" drugs. The next thing that will be noticed in the Regulations is that the medical men have had granted them all the concessions they asked for, which is somewhat anomalous considering that the General Medical Council fully approved the Draft Regulations and that the medical profession was indifferent in the matter until attention was drawn to the absurdities of the original draft. Dentists and veterinary surgeons are now allowed to possess and use the drugs covered by the Dangerous Drugs Act, and there is a quaintly worded proviso in clause 17 of the Regulations under Section 7 that drugs, "when denatured in a manner approved by the Secretary of State," may be exempted from the provisions of the Regulations. The bright idea was suggested by a veterinary expert on the spur of the moment, we imagine. To talk of "denaturing" a poison is laughable to anyone outside a Government Office. Under Clause 5, dealing with the conditions as to the giving and dispensing of prescriptions, another fantastic suggestion is made that official forms for prescriptions may be issued. Anybody with experience of doctors' prescribing will have little doubt that the provision allowing the words "official form not available" to be used will be the most employed term on dangerous-drug prescriptions. Clause 8 has been expanded very much

it seems to us absurd to issue regulations for the marking of packages when the retail sale of the packages is forbidden. There may be some hidden reason for such regulation, which, it will be observed, does not apply to prescribed medicines, but so far we have not fathomed the mystery. In regard to the records to be kept under the Regulations, it will be noted that the number of registers (as they are now called) has been reduced. Instead of a separate book for each "dangerous" drug, one book may be employed. The prescription-book and poison-book which have to be kept under the Pharmacy Act are now recognised, but references to these records are to be made in another book, which leaves the position very much the same as it was in the Draft Regulations. Moreover, the specimen record-book still contains the column headed "When sale is on a prescription specify the ingredients of the prescription." A new regulation is made regarding the use of dangerous drugs on board ship, but we cannot see any method provided by which the master of a ship can obtain the drugs in the first place. The hospital regulations are yet to be produced. The titles of the Irish Pharmacy Acts are still incorrectly given. The second schedule of preparations the sale of which is exempted from the Regulations enumerates seventeen pharmaceutical preparations, but only two of these—opium powder and gall and opium ointment—are of any importance. The retail sale of laudanum will be illegal in the United Kingdom on and after September 1. We suppose the intention is to enforce the sale of a diluted laudanum, which leads us to the conviction that, as has been stated officially, the Regulations in their present form cannot carry out the objects in view. Practically no notice has been taken of the suggestions and advice offered by the Pharmaceutical Societies of Great Britain and Ireland, and in the long struggle over the Regulations that has been going on since January it is Whitehall that has won.

### The Finance Bill.

THE Finance Bill just published is interesting both in itself and as an indication of the Government's interpretation of the public opposition which led to the Revenue Bill being abandoned. The income-tax clauses, other than the purely administrative clauses of the Revenue Bill, have been reproduced in the new Bill, which under that head contains little more than the usual clause imposing the income-tax at a certain rate for the new tax year and that providing for the automatic fixing of the assessments under Schedules A and B and the inhabited house duty. Under the part of the new Bill devoted to Customs and Excise the clauses of the abandoned Revenue Bill also appear, the chief of which, such as that dealing with the synthetic manufacture of alcohol and that referring to power methylated spirit we remarked upon in the appearance of the earlier Bill. The Bill also provides for the continuance of the increased medicine duties, repeals the additional duty on cigars imposed by the Finance Act of last year, and substitutes a duty of 12s. 6d. per gallon on sparkling wines in lieu of the combined duties of 5s. a gallon and 33½ per cent. *ad valorem* which had been in force for a year with such unsatisfactory results as the Exchequer. Chief interest will perhaps centre on the part of the Bill which provides for the discontinuance of the excess profits duty and gives details of the administrative steps by which the abandonment of the tax is to be given effect to. Provision is made for an adjustment of the impost on the basis of the principle that the

various yearly levies are to be regarded as one tax levied on the balance of the profits over the whole period during which it has been in force. To enable these profits to be arrived at it would, of course, be necessary to have a valuation of the stock of each trader on the date on which the tax comes to an end. For this purpose the Government have adopted three schemes, either of which a taxpayer is to be allowed to claim shall apply to his business: (1) The Levelling Process, by which the taxpayer is to be allowed to revalue as at August 31, 1921, the whole of his stock in hand at the end of his final accounting period, and if the value then ascertained is less than the amount at which the stock was brought into account at the end of the final accounting period, he can write off the difference from the profits of the final accounting period. (2) The White Paper Relief, under which a period of two years will be allowed from August 31, 1921, in which to ascertain by actual realisation the value of the stock on hand on that date, and an allowance made in computing the profits of the final accounting period for any amount by which the sum realised is less than the cost or value at August 31, 1921. (3) The Financial Risks Committee's scheme, under which the taxpayer will be allowed 30 per cent. of the deficiency where he can show that, owing to his holding trading stocks at falling prices, the profits of his business over the period of four years following August 31, 1921, are less than the percentage standard. The repeal of the tax extends, it may be noted, to the excess profits duty on mineral rights, and the sense of relief which taxpayers must feel in being finally quit of the burden must be such as would be exceeded only if, by some miracle of finance, the income-tax itself were to be relegated to the limbo of fiscal troubles.

### New Zealand Customs Tariff.

EXPORTERS to New Zealand will be interested to hear that a general revision of the Customs tariff is to be undertaken this year, and that a Committee appointed by the New Zealand Government has carried out preliminary inquiries into trade matters. The trend of affairs in regard to the tariff is being watched on this side by the Federation of British Industries, which body in February last addressed the following letter to the Prime Minister of New Zealand:

SIR,—As President of the Federation of British Industries, which represents over 18,000 British manufacturers, I venture to address to you an appeal upon the subject of the forthcoming revision of the New Zealand tariff, which is a matter of great concern to many of our members. The Federation of British Industries recognises and greatly appreciates the practical encouragements accorded to trade with the Mother Country, both by the Government and the people of New Zealand in the past, and while, in approaching the question of the New Zealand tariff, the interests of the Dominion must be paramount, they confidently rely that the New Zealand Government will continue to give the same sympathetic consideration to the question of Imperial commerce in the future. The Federation believe that they are voicing your own sentiments when they say that they regard the maintenance of the largest possible volume of trade between Great Britain and New Zealand as an Imperial question of the highest importance. They trust your Government, in their reconsideration of the tariff, will, as far as practicable, seek to encourage British imports into New Zealand, particularly in preference to the import of competitive goods from foreign sources. The Federation feel confident that this point of view will meet with sympathy on the part of your Government, and that British manufacturers may rely upon the most favourable

consideration possible. As you may be aware, the Federation have taken special interest in the New Zealand market, as evidenced by their formation of a special section to deal with that Dominion, by their appointment of the New Zealand Association of British Manufacturers and their representatives as their correspondents in New Zealand, and by the arrangements which they were privileged to make for conducting shortly after the armistice a party of members from the New Zealand Imperial Forces round certain of the works of their members. They earnestly trust that the cordial relations between them and the business community of New Zealand may continue to be strengthened in the future.

Yours faithfully,

W. PETER RYLANDS, President.

Rt. Hon. W. F. Massey,  
Prime Minister of New Zealand, Wellington, N.Z.

It is interesting to note that the Federation has received a sympathetic reply from the Right Hon. W. F. Massey, in the course of which he assures the Federation that when the new tariff was framed the interests of British industries would not be overlooked. This may be considered satisfactory in view of the many difficulties which have been experienced by British manufacturers consequent upon the recent or pending drastic revisions of Customs tariffs in many countries, including those of the British Empire. The Board of Trade has the matter in hand also, and is open to receive any suggestions or observations of those engaged in New Zealand trade, particularly with reference to any anomalies or omissions in the existing tariff classification, or as to the results of the existing preference in the case of particular United Kingdom industries which are in competition with those of foreign countries in the New Zealand markets. Judging by the latest advices, the tariff is not likely to be taken in hand before September, as the Prime Minister who will have charge of it in the House of Representatives is to be in London in June for the Imperial Conferences, so that there will be plenty of opportunity for British manufacturers to place their views before the Prime Minister.

### The Scarborough Conference.

WE give in this issue an illustrated account of the attractions of Scarborough, which members of the British Pharmaceutical Conference will visit next month. An attractive programme has been arranged by the local Committee, excursions to neighbouring towns, a dinner, a dance, and smoking concerts occupying the intervals between the reading of papers in the scientific and practical sections. Already a good number of papers have been offered to the Executive Committee, but the Practical Section, which was a strong feature last year, has not yet attracted any contributions, although efforts are being made to maintain the popularity of this part of the Conference. The natural beauties of Scarborough should alone ensure a good attendance at the Conference this year, and members are reminded that applications for tickets should be made before the end of the month to the Secretary, Mr. E. R. Cross, St. Oswalds, Filey Road, Scarborough.

**QUEENSLAND ECONOMIC PRODUCTS.**—The establishment of a forest-products laboratory in Queensland is advocated by the Director of Forests, in order to ascertain the best methods of obtaining tannic acid from eucalyptus kinos, commercial saponins from cupanias, gum acacia from baubinsias, essential oils from citron-scented gums and citron-scented ti-trees, caoutchouc from alstonias, starch and vegetable wool from macro-zamias, and resin from grass-trees, as well as power charcoal and alcohol, and other derivatives of wood-distillation from characteristic Queensland trees.

## Ulster Retail Drug Trade Association.

A COMMITTEE meeting of the Ulster Retail Drug Trade Association was recently held in the rooms of the Chemists' and Druggists' Society, 11 Waring Street, Belfast. The Vice-President (Mr. W. E. Wilson) occupied the chair. Other members present were: Messrs. W. J. Hardy, J. A. Bingham, Wm. Macartney, S. Suffern, J. C. Culbert, H. Crail, J. Macauley, C. B. Abernethy, and the secretary, Mr. W. J. Stevenson. An apology was read from the President (Mr. H. Lancashire, J.P.). A communication was read from the Ministry of Pensions, stating that headquarters are at present considering the possibility of opening a larger clinic, and asking for suggestions concerning the supply of drugs. The Committee decided to do the work in this connection on the same terms as the "tuberculosis scheme," and offered to help in compiling a formulary. A communication was received from the Ministry of Labour, submitting a copy of the draft scheme for training disabled Service men in retail pharmacy. Mr. J. C. Culbert, having briefly outlined the scheme, referred to the period of training and syllabus and the prospects of livelihood for those who would take the Qualifying examination of the Pharmaceutical Society of Ireland, at the satisfactory conclusion of the prescribed period of training. It was proposed that the draft scheme be accepted, and that Messrs. H. G. Pring, J. C. Culbert, W. J. Hardy, and S. Suffern be reappointed permanently as representatives. Correspondence from the following was dealt with: M. Beetham & Son, Oscar Scruton & Co., J. & J. Haslett, Ltd., The Dodds Remedies Co., J. M. Wadsworth, J. A. Bingham, and R. S. Anderson.

## Retail Pharmacists' Union.

**Executive Committee.**—A meeting of the Executive Committee was held at 19 Tavistock Square, London, W.C., on May 25. Mr. John Keall (London) was elected *Chairman*, and Mr. Thomas Hardy (Maryport) *Vice-Chairman*. Under Rule 40, Mr. Fred Hindle (Preston) was co-opted as a representative of the North-Western Section in place of the late Mr. J. W. Deakin.

**Halifax.**—A meeting of the Halifax Chemists' Association was held recently, presided over by Mr. L. Chambers, at which it was resolved that application be made to the Central Executive for the recognition of a branch in the Halifax area. The following members acting as founders of the branch, were elected officers: *Chairman*, Mr. L. Chambers; *Vice-Chairman*, Mr. Gibson Dixon; *Treasurer*, Mr. O. Crook; *Secretary*, Mr. H. R. Stocks; *Committee*, Messrs. W. R. Fielding, W. Lumb and W. Peel.

**Lincolnshire (Holland).**—The Lincolnshire (Holland) Association of Pharmacists has been merged in the local branch of the Retail Pharmacists' Union. Mr. E. A. Bailey, Boston, has been chosen *Chairman*, and Mr. E. A. Osborn, Spalding, *Secretary*.

**"CLOSH."**—During the hearing of a recent charge of theft at Brentford, one of the accused men was stated to have informed the police authorities that the prosecutor when bound to a chair by his assailants, asked for some "closh," which was understood to be a name for chloroform.

**VANILLIN FROM JAMAICA.**—As soon as satisfactory progress has been made in the production of vanillin from pimento-leaf oil, the Jamaican Legislative Council will receive plans for the erection of a factory to develop the industry. Firms in the United Kingdom have already intimated that they will purchase all the vanillin produced in Jamaica.

## Drug Index Number.

THE May index-figure shows a further decline of three points in conf. sennæ, lin. camph., ext. ergotæ liq., pot. brom., and sodii benz. The last-named salt is now approximately the year 1913 price. The decline is modified by the first signs of a rise in certain synthetics, such as aspirin, phenazone, and sodium salicylate. There are now only five representatives with an index-figure above 300,

while mag. sulph. is the one outstanding figure over 400. The reaction towards higher prices was to be expected in synthetics and those drugs dependent on the Continental exchanges, which have lately been approaching nearer parity than for many months past. Surgical dressings show a slight decline in the decimal place, due to a fall in boric lint. The prices are steadier, but this may be largely due to the general slackness of trade.

### Drugs, Chemicals, and Galenicals.

C=cost; I=index.	1913		May 1921		April 1921		Mar. 1921		Feb. 1921		Jan. 1921		Dec. 1920		Nov. 1920	
	Qty.	C.	C.	I.	C.	I.	C.	I.	C.	I.	C.	I.	C.	I.	C.	I.
Ac. acetylsal. ...	2 lb.	88	176	200	144	164	160	182	176	200	208	225	224	251	224	251
Bismuth. carb. ...	3 lb.	308	513	166	513	166	513	166	630	204	630	204	666	216	666	216
Conf. sennæ ...	4 lb.	64	136	212	144	225	144	225	144	225	144	225	144	225	168	260
Ext. casc. sag. liq. ...	6 lb.	88	232	264	232	264	232	264	232	264	232	264	232	264	232	264
„ cinch. liq. ...	1 lb.	54	117	216	117	216	117	216	164	303	135	250	135	250	135	250
„ ergot. liq. ...	2 lb.	198	300	151	344	173	344	173	428	216	535	268	541	273	676	341
Ferr. amm. cit. ...	3 lb.	57	192	337	192	337	192	337	204	358	204	358	240	421	240	421
Hexamina ...	4 oz.	15	48	320	48	320	48	320	48	320	56	373	76	506	84	560
Inf. gent. co. conc. ...	12 lb.	204	366	164	336	164	336	164	336	164	336	164	372	182	372	182
Lin. camph. ...	5 lb.	90	170	188	178	198	178	198	190	211	240	266	240	266	242	268
„ camph. amm. m. ...	8 lb.	144	252	175	252	175	252	175	292	202	304	211	304	211	304	211
„ sapo. meth. ...	10 lb.	120	245	204	245	204	245	204	245	204	245	204	245	204	280	233
„ terebinth. ...	6 lb.	108	120	111	120	111	141	130	150	139	171	153	150	139	180	166
Mag. carb. levis ...	2 lb.	22	28	128	28	128	28	128	28	128	28	128	28	128	28	128
„ sulph. ...	14 lb.	14	66	471	66	471	66	471	66	471	66	471	66	471	66	471
Ol. morrhuae ...	10 lb.	80	114	142	115	144	140	175	185	231	180	225	190	237	195	243
Phenacetin. ...	4 oz.	18	60	333	60	333	60	333	64	355	76	422	80	444	84	466
Phenazonum ...	4 oz.	24	64	266	60	250	60	250	64	266	68	283	76	316	92	333
Potas. brom. ...	4 lb.	88	92	164	96	109	96	109	96	109	108	123	120	136	144	163
„ iod. ...	2 lb.	298	456	153	456	153	456	153	480	161	480	161	480	161	480	161
Quin. sulph. ...	4 oz.	80	224	280	224	280	224	280	224	280	224	280	236	295	236	295
Resorcin. ...	1 oz.	5	16	320	16	320	16	320	17	340	18	360	22	440	24	480
Sodii benz. ...	3 oz.	13	13.5	104	15	115	15	115	15	115	16	123	16	123	18	133
„ salicyl. ...	4 lb.	132	240	181	228	172	228	172	228	172	240	181	288	218	272	206
Sp. chlorof. ...	2 lb.	96	127	132	127	132	127	132	143	149	146	152	146	152	152	153
Syr. ferr. ph. co. ...	4 lb.	36	84	233	84	233	84	233	84	233	98	271	104	288	112	311
„ Eastonii ...	3 lb.	54	123	227	123	227	123	227	123	227	134	248	134	248	140	259
Tr. chlor. et morph. '85	2 lb.	80	120	150	120	150	120	150	115	143	124	172	129	161	129	161
Ung. ac. borici ...	7 lb.	77	182	236	182	236	196	254	196	254	196	254	196	254	196	254
„ zinci ...	4 lb.	88	108	123	108	123	120	136	120	136	140	146	140	146	140	146
<b>Index Number ...</b>	<b>100</b>		<b>209.7</b>		<b>212.8</b>		<b>215.8</b>		<b>226.0</b>		<b>239.0</b>		<b>258.2</b>		<b>268.2</b>	

### Surgical Dressings.

—	1913		May 1921		April 1921		Mar. 1921		Feb. 1921		Jan. 1921		Dec. 1920		Nov. 1920	
	Qty.	C.	C.	I.	C.	I.	C.	I.	C.	I.	C.	I.	C.	I.	C.	I.
Bandages	144	1.44	316.8	220	316.8	220	316.8	220	316.8	220	345.6	240	403.2	280	432	300
Gauze ...	72 yd.	72	242.0	336	242.0	336	219.6	305	219.6	305	237.6	330	288.0	400	330	458
Lint ...	28 lb.	460	1190.0	239	1190.0	239	1190.0	239	1190.0	239	1260.0	270	1680.0	365	1680	365
„ boric	56 lb.	624	1652.0	264	1668.0	267	1668.0	267	1668.0	267	1736.0	278	1960.0	314	2184	350
Cotton wool	84 lb.	756	1680.0	222	1680.0	222	1680.0	222	1680.0	222	1680.0	222	1848.0	244	2722	353
<b>Index Number</b>	<b>100</b>		<b>256.2</b>		<b>256.8</b>		<b>250.6</b>		<b>250.6</b>		<b>268.8</b>		<b>320.6</b>		<b>365.2</b>	

# Dangerous Drugs Act, 1920.

## Regulations under Section 3.

*[The alterations made in the Draft Regulations (C & D., January 15, p. 55) are here printed in italics.—ED.]*

Regulations, dated May 20, 1921, made by the Secretary of State under Section 3 of the Dangerous Drugs Act, 1920 (10 & 11 Geo. 5, Ch. 46), for Controlling and Restricting the Possession, Sale and Distribution of Raw Opium.

### SALE AND DISTRIBUTION.

1. No person shall supply or procure, or offer to supply or procure, raw opium to or for any person whether in the United Kingdom or elsewhere, or shall advertise raw opium for sale—

(a) unless he is licensed by the Secretary of State or is authorised by these Regulations or by any authority granted by the Secretary of State to supply raw opium, or unless he is licensed by the Secretary of State to import or export raw opium, or

(b) otherwise than in accordance with the terms and conditions of such licence or authority.

2. No person shall supply or procure, or offer to supply or procure, raw opium to or for any person who is not licensed or otherwise authorised to be in possession of raw opium nor to any person so licensed or authorised except in accordance with the terms and conditions of such licence or authority.

### POSSESSION.

3. No person shall be in possession of raw opium unless—

(a) he is licensed to import or export raw opium, or

(b) he is licensed or otherwise authorised to supply raw opium, or

(c) he is otherwise licensed by the Secretary of State or authorised by these Regulations or by any authority granted by the Secretary of State to be in possession of raw opium.

### RECORDS.

4. Every person who supplies raw opium shall comply with the following provisions:—

(a) He shall enter or cause to be entered in a register kept for the sole purpose all supplies of raw opium purchased or otherwise obtained by him, and all dealings in raw opium effected by him (including sales or supplies to persons outside the United Kingdom) in the form and containing the particulars shown in the Schedule to these Regulations;

(b) he shall make the entry with respect to any raw opium purchased or otherwise obtained by him on the day on which it is received and with respect to any sale or supply by him of raw opium on the day on which the transaction is effected; or where that is not reasonably convenient on the day following the day on which the raw opium is received or the transaction is effected;

(c) where he carries on business at more than one set of premises he shall keep a separate register in respect of each set of premises;

(d) he shall keep the register in some part of the premises to which it relates so that it shall at all times be available for inspection in accordance with the provisions of the Act;

(e) he shall not cancel, obliterate, or alter any entry in the register or make therein any entry which is untrue in any particular. Any mistake in an entry may be corrected by a marginal note or foot-note giving the correct particulars and dated.

### GENERAL AUTHORISATION.

5. Any duly qualified medical practitioner, or any person lawfully keeping open shop for the retailing of poisons in accordance with the provisions of the Pharmacy Act, 1868, as amended by the Poisons and Pharmacy Act, 1908, or any person employed or engaged in dispensing medicines at any public hospital or other public institution being a person duly registered under the Pharmacy

Act, 1868, as amended by the Poisons and Pharmacy Act, 1908, or any registered veterinary surgeon or any person in charge of a laboratory for purposes of research or instruction attached to any university, university college, public hospital, or other institution approved by the Secretary of State for the purpose, or any person appointed by a local authority with the approval of the Minister of Health as an analyst for the purposes of the Sale of Food and Drugs Acts, 1875 to 1907, is hereby authorised so far as is necessary for the practice of his profession or employment in such capacity to be in possession of and supply raw opium, but subject always to the provisions of the foregoing regulation.

6. In the event of any person authorised by these Regulations or by any authority granted by the Secretary of State to be in possession of or supply raw opium being convicted of an offence against the Act or an offence under the enactments relating to the Customs as applied by the Act the Secretary of State may by notice in the *London, Edinburgh, or Dublin Gazette* withdraw the authorisation aforesaid in respect of such person if in the opinion of the Secretary of State such person cannot properly be allowed to be in possession of or supply raw opium.

### DELIVERY TO MESSENGERS.

7. No person shall deliver any raw opium to any person not licensed or otherwise authorised to be in possession of raw opium who purports to be sent by or on behalf of a person so licensed or authorised unless such person produces an authority in writing, signed by the person so licensed or authorised, to receive the raw opium on his behalf and unless the person supplying the raw opium is satisfied that the authority is genuine.

### MEANING OF "POSSESSION."

8. Raw opium in the order or disposition of any person shall, for the purpose of these Regulations, be deemed to be in his possession.

### APPLICATION TO IRELAND.

9. In the application of these Regulations to Ireland a reference to the Poisons (Ireland) Act, 1870, the Pharmacy (Ireland) Act, 1875, and the Pharmacy (Ireland) Act, 1875 (Amendment) Act, 1890, shall be substituted for any reference to the Pharmacy Act, 1868.

### COMMENCEMENT.

10. These Regulations shall come into force on the 1st day of September, 1921.

### SCHEDULE.

#### Raw Opium.

(a) Record of Raw Opium purchased or otherwise obtained.

Date on which supply received	Name of person, body or firm from whom obtained	Address of person, body or firm from whom obtained	Amount obtained	Form in which obtained, i.e. raw, powdered or granulated

(b) Record of Raw Opium sold or supplied.

Date on which the transaction was effected	Name of person, body or firm to whom sold or supplied	Address of person, body or firm to whom sold or supplied	Authority of person, body or firm to be in possession of raw opium	Amount sold or supplied	Form in which sold or supplied, i.e. raw, powdered or granulated

## Regulations under Section 7.

Regulations, dated May 20, 1921, made by the Secretary of State under Section 7 of the Dangerous Drugs Act, 1920 (10 and 11 Geo. 5, Ch. 46), for controlling the manufacture, sale, possession, and distribution of morphine, cocaine, ecgonine, and diamorphine (commonly known as heroin) and their respective salts, and medicinal opium, and preparations and substances containing not less than one-fifth per cent. of morphine or one-tenth per cent. of cocaine, ecgonine, or diamorphine.

### APPLICATION.

1. The drugs to which these Regulations apply are morphine, cocaine, ecgonine, and diamorphine (commonly known as heroin), and their respective salts, and medicinal opium, and any preparation, admixture, extract, or other substance containing not less than one-fifth per cent. of morphine or one-tenth per cent. of cocaine, ecgonine, or diamorphine.

For the purpose of the foregoing provision, the percentage in the case of morphine shall be calculated as in respect of anhydrous morphine.

### MANUFACTURE.

2. No person shall manufacture or carry on any process in the manufacture of morphine, cocaine, ecgonine or diamorphine, or their respective salts or medicinal opium—

(a) unless he is licensed by the Secretary of State or is authorised by these Regulations or by any authority granted by the Secretary of State to do so,

(b) except on premises licensed for the purpose by the Secretary of State,

(c) otherwise than in accordance with the terms and conditions of such licence or authority.

### SALE AND DISTRIBUTION.

3. No person shall supply or procure or offer to supply or procure any of the drugs to or for any person whether in the United Kingdom or elsewhere or shall advertise any of the drugs for sale—

(a) unless he is licensed by the Secretary of State or is authorised by these Regulations or by any authority granted by the Secretary of State to supply the drug or unless he is licensed by the Secretary of State to import or export the drug or unless he is licensed or otherwise authorised to manufacture the drug or

(b) otherwise than in accordance with the terms and conditions of such licence or authority.

4. Except when the drugs are lawfully dispensed in pursuance of a prescription given by a duly qualified medical practitioner, registered dentist or registered veterinary surgeon, or are supplied by a duly qualified medical practitioner or registered veterinary surgeon who dispenses his own medicines, in accordance with the conditions hereinafter specified, no person shall supply or procure or offer to supply or procure any of the drugs to or for any person in the United Kingdom who is not licensed or otherwise authorised to be in possession of the drug nor to any person so licensed or authorised except in accordance with the terms and conditions of such licence or authority.

*Provided that administration of the drugs by or under the direct personal supervision of a duly qualified medical practitioner, or by or under the direct personal supervision of a registered dentist in dental treatment, or by or under the direct personal supervision of a registered veterinary surgeon in the treatment of any animal, shall not be deemed to be supplying the drug within the meaning of this and the following Regulations.*

### CONDITIONS AS TO THE GIVING AND DISPENSING OF PRESCRIPTIONS.

5. A prescription for the supply of the drugs must comply with the following conditions:

The prescription must be in writing, must be dated and signed by the medical practitioner, registered dentist or registered veterinary surgeon as the case may be, with his full name and address, and must specify the name and address of the person for whose use the prescription is given, and the total amount of the drug to

be supplied on the prescription, except that in the case of prescriptions issued for National Health Insurance purposes on the form provided by the Insurance Committee the medical practitioner's address need not be marked on the prescription.

*A prescription shall only be given by a registered dentist for the purposes of dental treatment and shall be marked "For local dental treatment only."*

*A prescription shall only be given by a registered veterinary surgeon for the purposes of treatment of animals and shall be marked "For animal treatment only."*

The Secretary of State may prescribe and issue a form hereinafter referred to as the "official form" for use in giving prescriptions for the drugs, and in that case a prescription for any of the drugs shall only be given on an official form or in the case of prescriptions issued for National Health Insurance purposes on the form provided by the Insurance Committee, provided that in a case of emergency when the person giving the prescription has not the official form available, the prescription may be given without using the official form, but in that case shall be marked with the words "Official Form not available" or similar words.

A medical practitioner, registered dentist or registered veterinary surgeon shall not give any prescription for the supply of any of the drugs otherwise than in accordance with the foregoing conditions:

*A medical practitioner who dispenses any medicines to which these Regulations apply shall enter particulars thereof in his day book or in the register hereinafter specified.*

6. The following conditions shall be observed by persons dispensing prescriptions for the drugs:

(a) If an official form is prescribed and issued by the Secretary of State in pursuance of the foregoing Regulation, a prescription for any of the drugs shall only be dispensed if the prescription is on one of those forms or on the form provided for National Health Insurance purposes by the Insurance Committee, or in the case of an emergency prescription given under the conditions specified in the foregoing Regulation, if the person dispensing the prescription is acquainted with the signature of the medical practitioner, registered dentist, or registered veterinary surgeon by whom the prescription purports to be given, or is acquainted with the person for whose use the prescription is given and has no reason to suppose that the prescription is not genuine;

(b) the drugs shall not be supplied more than once on the same prescription: *Provided that, if the prescription so directs, the drugs may be supplied on more than one but not exceeding three occasions, as directed in the prescription, at intervals to be specified in the prescription;*

(c) the prescription shall be marked with the date on which it is dispensed, and shall be retained by the person, firm, or body corporate by whom the prescription is dispensed, and (unless issued for National Health Insurance purposes on the form provided by the Insurance Committee) shall be kept on the premises where it is dispensed and shall be available for inspection.

### POSSESSION.

7. No person shall be in possession of any of the drugs unless—

(a) he is licensed to import or export the drug, or

(b) he is licensed or otherwise authorised to manufacture or supply the drug, or

(c) he is otherwise licensed by the Secretary of State or authorised by these Regulations or by any authority granted by the Secretary of State to be in possession of the drug, or

(d) he proves that the drug was supplied for his use by a duly qualified medical practitioner or registered veterinary surgeon or on and in accordance with such a prescription as aforesaid.

### MARKING OF PACKAGES OR BOTTLES.

8. (i) No person shall supply any morphine, cocaine, ecgonine, diamorphine or their respective salts or any medicinal opium unless the package or bottle containing

it is plainly marked with the amount of the drug in the package or bottle.

(ii) No person shall supply any preparation, admixture, extract, or other substance containing any of these last-mentioned drugs and coming within these Regulations unless the package or bottle is plainly marked

(a) in the case of a powder, solution, or ointment, with the total amount thereof in the package or bottle and the percentage of the drug in the powder, solution, or ointment;

(b) in the case of tablets or other articles with the amount of the drug in each article and the number of articles in the package or bottle.

This Regulation shall not apply to any preparation dispensed by a duly qualified medical practitioner or on the prescription of a duly qualified medical practitioner.

#### RECORDS.

9. Every person who supplies any of the drugs shall comply with the following provisions:

(a) He shall enter or cause to be entered in a register kept for the sole purpose all supplies of the drug purchased or otherwise obtained by him and all dealings in the drug effected by him (including sales or supplies to persons outside the United Kingdom) in the form and containing the particulars shown in Schedule I. to these Regulations;

(b) separate registers or separate parts of the register shall be used for (a) cocaine and ecgonine and substances containing them, (b) morphine and substances containing it, (c) diamorphine and substances containing it, (d) medicinal opium; provided that with the approval of the Secretary of State separate registers may be kept for separate departments of a business;

(c) he shall make the entry with respect to any of the drugs purchased or otherwise obtained by him on the day on which the drug is received and with respect to any sale or supply by him of the drug on the day on which the transaction is effected; or where that is not reasonably convenient on the day following the day on which the drug is received or the transaction is effected;

(d) where he carries on business at more than one set of premises he shall keep a separate register or registers in respect of each set of premises;

(e) he shall keep the register or registers in some part of the premises to which it relates so that it shall at all times be available for inspection in accordance with the provisions of the Act;

(f) he shall not cancel, obliterate, or alter any entry in the register or make therein any entry which is untrue in any particular. Any mistake in an entry may be corrected by a marginal note or foot-note giving the correct particulars and dated;

(g) he shall furnish to the Secretary of State or to any person authorised by any order of the Secretary of State for the purpose all information in regard to any purchases by him of the drugs, all stocks held by him of the drugs, and all transactions effected by him in the drugs as may be required by the Secretary of State for the purpose of seeing that the provisions of the Act are observed.

A duly qualified medical practitioner who records in a day book particulars of any of the drugs supplied by him to any patient, together with the name and address of the patient and date of the supply, may, in lieu of keeping the register required by this Regulation of drugs sold or supplied by him, enter separately for each of the drugs in a book to be kept for the purpose references under the appropriate dates to the records in the day book of any supply of the drug. A person lawfully keeping open shop for the retailing of poisons in accordance with the provisions of the Pharmacy Act, 1868, as amended by the Poisons and Pharmacy Act, 1908, may, in lieu of keeping the register required by this Regulation of drugs sold or supplied by him, enter separately for each of the drugs in a book to be kept for the purpose references under the appropriate dates to the entries in the "Poisons Book" or "Prescription Book" kept by him in pursuance of section 17 of the Pharmacy Act, 1868, relating to any supply of the drugs. Provided that

all such books shall at all times be available for inspection in accordance with the provisions of the Act.

#### GENERAL AUTHORISATIONS.

10. Any person lawfully keeping open shop for the retailing of poisons in accordance with the provisions of the Pharmacy Act, 1868, as amended by the Poisons and Pharmacy Act, 1908, is hereby authorised—

(a) to manufacture at the shop in the ordinary course of his retail business any preparation, admixture or extract of any of the drugs;

(b) to carry on at the shop the business of retailing dispensing or compounding the drugs, but subject always to the provisions of these Regulations.

In the event of any such person being convicted of an offence against the Act or of an offence under the enactments relating to the Customs as applied by the Act the Secretary of State may by notice in the *London, Edinburgh or Dublin Gazette* withdraw the authorisation aforesaid, if, in the opinion of the Secretary of State such person cannot properly be allowed to carry on the business of manufacturing or selling or distributing a the case may be, any such drug; provided that the Secretary of State shall, before withdrawing the authorisation in the case of any such person, consult the Council of the Pharmaceutical Society of Great Britain.

11. Any duly qualified medical practitioner, or an registered dentist, or any registered veterinary surgeon or any person employed or engaged in dispensing medicine at any public hospital or other public institution, being a person duly registered under the Pharmacy Act, 1868, as amended by the Poisons and Pharmacy Act, 1908, or any person in charge of a laboratory for purposes of research or instruction attached to any university, university college, public hospital or other institution approved by the Secretary of State for the purpose, or any person appointed by a local authority with the approval of the Minister of Health as an analyst for the purposes of the Sale of Food and Drugs Acts, 1875 to 1907, is hereby authorised so far as is necessary for the practice of his profession or employment in such capacity to be in possession of and supply the drugs.

12. In the event of any person authorised by the Regulations or by any authority granted by the Secretary of State to manufacture, supply or be in possession of the drugs, or any of them, being convicted of any offence against the Act or of an offence under the enactments relating to the Customs as applied by the Act, the Secretary of State may, by notice in the *London, Edinburgh or Dublin Gazette*, withdraw the authorisation in respect of such person, if, in the opinion of the Secretary of State, such person cannot properly be allowed to manufacture, supply or be in possession of any such drug.

13. No person shall deliver any of the drugs to any person not licensed or otherwise authorised to be in possession of the drugs who purports to be sent by or on behalf of a person so licensed or authorised, unless such person produces an authority in writing, signed by the person so licensed or authorised, to receive the drug on his behalf, and unless the person supplying the drug is satisfied that the authority is genuine. This Regulation shall not be deemed to apply to medicines dispensed in pursuance of the foregoing Regulations.

#### MEANING OF "POSSESSION."

14. Any of the drugs in the order or disposition of any person shall be deemed to be in his possession.

#### SHIPS.

15. In the case of a ship not carrying as part of her complement a duly qualified medical practitioner, the master of the ship shall be deemed to be a person authorised to be in possession of the drugs so far as necessary to comply with the requirements of the Merchant Shipping Acts, and it shall also be lawful for him, subject to any conditions prescribed by the Secretary of State to administer and supply the drugs to any member of the crew in accordance with instructions prepared or sanctioned by the Board of Trade. The keeping of a record of the use of the drugs in the official log in accordance with the provisions of the Merchant Shipping Acts shall be deemed to be compliance with the requirements of these Regulations as to the keeping of records.

## HOSPITALS.

16. The Secretary of State may exempt from the operation of these regulations any hospital or other public institution subject to the observance of such conditions as he may by order prescribe.

## PREPARATIONS EXEMPTED FROM THE REGULATIONS.

17. These regulations shall not apply in respect of the preparations named in Schedule II. to these Regulations nor to any of the drugs when denatured in a manner approved by the Secretary of State. The Secretary of State may from time to time by order add any other preparation to the Schedule or remove any preparation from the Schedule.

## APPLICATION TO IRELAND.

18. In the application of these regulations to Ireland:—  
(a) A reference to the Poisons (Ireland) Act, 1870, the Pharmacy (Ireland) Act, 1875, and the Pharmacy (Ireland) Act, 1875, (Amendment) Act, 1890, shall be substituted for any reference to the Pharmacy Act, 1868, and  
(b) A reference to the Pharmaceutical Society of Ireland shall be substituted for the reference to the Pharmaceutical Society of Great Britain.

## COMMENCEMENT.

19. These Regulations shall come into force on the 1st day of September, 1921.

## SCHEDULE I.

(a) Record of 

Morphine, etc.	} Purchased or otherwise obtained.
Diamorphine (Heroin), etc.	
Cocaine, etc.	
Medicinal Opium	

Date on which supply received	Name of person, body or firm from whom obtained	Address of person, body or firm from whom obtained	Amount obtained	Form in which obtained

(b) Record of 

Morphine, etc.	} sold or supplied.
Diamorphine (Heroin), etc.	
Cocaine, etc.	
Medicinal Opium	

Date on which the transaction was effected	Name of person, body or firm to whom sold or supplied	Address of person, body or firm to whom sold or supplied	Authority of person, body or firm to be in possession of the drug	Amount sold or supplied	Form in which sold or supplied	When sale is on a prescription, specify the ingredients of the prescription

## SCHEDULE II.

*Cereali iodoformi et morphinae*, B.P.C.  
*Emp. opii*, B.P., 1898.  
*Lin. opii*, B.P.  
" *opii ammon.*, B.P.C.  
*Pasta arsenicalis*, B.P.C.  
*Pil. hydrarg. c. opio*, B.P.C.  
*Pil. ipecac. c. scilla*, B.P.  
" *plumbi c. opio*, B.P.  
" *digitalis et opii co.*, B.P.C.  
*Pil. hydrarg. c. cret. et opii*, B.P.C.

*Pulv. creta aromat c. opio*, B.P.  
*Pulv. ipecac. co.*, B.P.  
(Dover's powder).  
*Pulv. kino co.*, B.P.  
*Suppos. plumbi co.*, B.P.  
*Tablettae plumbi c. opio*, B.P.C.  
*Ung. gallae c. opio*, B.P.  
(gall and opium ointment).  
*Ung. gallae co.*, B.P.C.

## Report of Departmental Committee.

The report of the Committee appointed by the Secretary of State for the Home Department to consider outstanding objections to the Draft Regulations issued under the Dangerous Drugs Act was issued on May 26. The report gives the list of witnesses that were examined as follows:

Dr. Alfred Cox and Dr. J. W. Bone on behalf of the British Medical Association.

Mr. John Rutherford Hill and Sir William Glyn Jones on behalf of the Pharmaceutical Society of Great Britain; the Retail Pharmacists' Union; the Parliamentary Committee of the Co-operative Congress; the Company Chemists' Association; the National Chamber of Trade. Their evidence was accepted by the representatives of the Scottish Pharmaceutical Federation as covering their case.

Mr. W. C. Moeke, solicitor of the Pharmaceutical Society of Ireland, on behalf of that Society, the Chemists' and Druggists' Society of Ireland, and certain Irish Pharmacists' Associations.

Mr. T. R. Lescher, Mr. C. A. Hill, and Mr. H. W. Gadd on behalf of the Drug Club, representing the wholesale druggists. Their evidence was accepted by the representatives of the fine chemical manufacturers, and the London wholesalers of druggists' sundries and proprietaries, as covering their case.

Dr. W. F. R. Burgess, the senior warden of the Society of Apothecaries of London, on behalf of that Society, and Mr. H. C. Richards on behalf of the Association of Certificated Dispensers.

Mr. A. H. Jenkin on behalf of the Public Pharmacists' Association.

Miss A. Gilliatt on behalf of the London women pharmacists.

Sir Nestor Tirard, secretary of the Pharmacopœia of the General Medical Council on behalf of that Council.

Professor John Penberthy on behalf of the Central Chamber of Agriculture; Mr. H. Armour on behalf of the Scottish Chamber of Agriculture; Mr. J. Donaldson on behalf of the National Farmers' Union; Dr. J. E. Tocher on behalf of the Highland and Agricultural Society of Scotland. Dr. Tocher also represented the Association of Public Analysts of Scotland.

Sir John McFadyen, Principal of the Royal Veterinary College.

Mr. L. C. Tipper on behalf of the Animal Medicine and Allied Traders' Association and certain other trade associations.

Mr. A. Heinemann and Mr. D. E. Wilkinson on behalf of the Association of Unregistered Practitioners, Assistants, and Animal Castrators.

Then follows the report, which extends to eight folio pages of type, and was received too late for insertion in this issue. The report was not unanimous, Mr. W. J. Uglov Woolcock, M.P., the only member of the Committee with a knowledge of pharmacy matters, signing with the following reservation:

The difference of opinion between my colleagues on the Committee and myself with regard to the compulsory interposition of a prescription in obtaining these drugs is that while we all agree that a prescription is an additional safeguard, they place a higher value on its efficiency than I do. I say that not only is a prescription desirable, but that to strengthen the safeguard you should insist on the additional check already imposed in other civilised countries and by the National Health Insurance Acts with their provisions for special circumstances, and forbid a doctor to both prescribe these drugs and dispense them himself in accordance with his own prescription. My colleagues say this raises a big question. It does. If the Regulations recommended by the Committee left the law as at present, neither doctors nor pharmacists could complain that the Secretary of State had not attempted to settle, on what is a side issue, the important principle involved, but the Regulations do attempt to alter the present law. I am satisfied that if such an alteration is to be made with regard to certain drugs, however small in number, it should be equitable as between doctors and pharmacists.

Then follow appendices giving (A) a list of associations represented by the witnesses, (B) the text of the Regulations (given above), and (C) a scheme suggested for the control of the drugs in hospitals having a dispensary under the charge of a qualified pharmacist.

## The Aromatic Products of the Lyons District.

By R. M. Gattefossé.

It is largely on account of its favoured geographical position that the industry of natural, and also of artificial, perfumes is assuming ever-increasing dimensions in the district of Lyons. Foremost among French towns, Lyons has always evinced a keen interest in the development of the French colonies, and practically every business house in Lyons is in direct touch with the colonies and protectorates. The important silk industry contributes to facilitate the importation of products from the Far East, while affording outlets for goods manufactured in Lyons. The city is also one of the most important centres of France's chemical industry. Its University is the only one in the world to possess a special department devoted to perfumery, attached to its school of chemistry. The discoveries of Barbier, Bouvaut, Grignard, to quote but a few well-known names, have laid the foundations to the industry of synthetic perfumes, and even the Germans have to acknowledge that the Lyonese chemists have been the pioneers in this branch of industry, and still occupy the foremost place as experts in the chemistry of perfumes. Turning to a consideration of the sources of supply of the raw materials required in this industry, the Far East sends, together with silk, peppermint oil, camphor, shiu and kuromoji oils, etc.; Tonkin supplies star anise and cinnamon; China and Indo-China, which are in close relations with Lyons, particularly since Chinese students have commenced to attend the educational institutions of the town, send similar products. Coriander, cumin, cedar, rose are the products sent by Morocco; Tunis supplies orange flowers; Madagascar ylang-ylang, geranium, and cloves; West Africa supplies verbena, patchouli, vetiver, limette, etc. The importation of essential oils is specialised in by the Société Universelle des Matières Odorantes at Irigny, and by the firm of Bernard-Escoffier in Lyons; but all the dealers in silk and in spices also import aromatic plants and essential oils.

These exotic raw materials are dealt with in the various chemical factories in Lyons, among which may be mentioned: Société Chimique des Usines du Rhône, Société Française de Produits Aromatiques, Descollonges Frères, Société Givaudan & Co., Société Chimique des Charpennes, and others. The essential oil of verbena is transformed into violet, into artificial iris, and into synthetic lily of the valley; camphor oil into heliotropine; star anise into anethol, and also into artificial hawthorn; geranium and citronella are made to yield artificial rose; cloves provide vanillin; artificial bergamot is made from Guiana bois de rose oil; and coumarin from Madagascar faham, etc. Side by side with this elaboration of artificial products from aromatic natural raw materials, the complete synthesis of artificial perfumes from coal-tar compounds is also undertaken, and forms a branch of the now flourishing chemical industry of Lyons.

Of the world's total production of oil of lavender, 90 per cent. is yielded by the flowers grown in the Alps, representing a value of 20,000,000fr. It is from Lyons that the proposal emanated to replace the haphazard collecting of wild-growing lavender by cultivation on a scientific basis, and, thanks to the active co-operation between the author and Professor Lamothe, over 5,000 hectares are now covered with cultivated lavender, compared with only 25 hectares in 1907.

The Lavande Française Co. alone owns 2,400 hectares of lavender plantations. In 1920 wild lavender was paid at the rate of 100fr. for 100 kilograms, while cultivated lavender fetched 40fr. for cultures of ten years, and 70fr. for those of five years' standing. These figures are due to the high cost of labour; a man paid 35fr. a day can harvest only 70 kilograms of wild-growing plants, or 200 kilograms of cultivated flowers. It is necessary to insist upon this point, since American dealers erroneously attribute the ruling high price of oil of lavender solely to speculation. The principal wholesale houses which

specialise in the sale of these essential oils are: Société Dauphinoise de Produits Aromatiques in Romans; Messrs. Rodié in Castelnau; Reboul in Nîmes; Masset in Aubenas; Genestet in Montpellier; which also deal in the essential oils of rosemary, aspic, sage, serpyllum, thyme, marjory, hyssop, etc., obtained in the Cevennes and in the district of Roussillon. Besides these large firms, hundreds of distillers come to Lyons to find a market for their products. The Department of Vaucluse is now also an important centre of aromatic plants, lavender being cultivated in the higher regions, and peppermint in the lower parts of the country, in addition to sage, angelica, fennel, and cyprus, which are distilled by the Union of Producers of the Vaucluse, as well as by the French Lavender Co. and the French Society of Aromatic Products mentioned above. Mention may be made in this connection to the fact that iris is now obtained in the Department of the Aisne, in a quality superior to the Florentine root. Nor must the rose gardens of Lyons be overlooked, which have done such excellent work in promoting the manufacture of French oil of rose. At the suggestion of the author, the first investigations were undertaken in Lyons to establish the medical uses of essential oils, a work undertaken in collaboration with Drs. Forgues, Bonnaure, Marchand, Meurisse, and the heads of the various hospitals and members of the medical faculty of the University of Lyons. The progress realised in the essential oil industry and trade in the Lyons district keeps step with the great advances made there in the manufacture of dyestuffs and of pharmaceutical products. This progress is largely the result of the high scientific standard of those engaged in this branch of industry, and of the close relations existing between the various Lyonese scientific faculties and the local industry. In no other French town is there so cordial an understanding between both sections of the community, and the manufacturers of Lyons contribute large sums towards the improvement of the technical schools and various research laboratories. The inhabitants of Lyons are credited with possessing a scientific spirit, coupled with German sense for method, the commercial instinct and business uprightness of the Englishman, and the ability to deal with men and the taste for entering into colonial undertakings of the American.

### May Drug Tariff.

The following are among the alterations for May in the Insurance Drug Tariff for England and Wales:

*Lower.*—Ether, B.P., 0.720, 3s. 6d. lb.; aq. rosæ, 2s. lb.; argent. nit., 3s. 4d. oz.; argent. nit. indur., 3s. 6d. oz.; argent. nit. mitigat., 3s. 6d. oz.; argent. proteinat., 1s. 9d. oz.; caffein. cit., 2s. oz.; capsula. ol. santal. m.v., 7.9d. doz.; ditto, m.10, 13.7d. doz.; conf. sennæ, 2s. 10d. lb.; diamorph. hydrochl., 6s. 2d. dr.; ext. coloc. co., 10s. 6d. lb.; ext. ergotæ, 8s. 6d. oz.; ext. ergot. liq., 13s. 4d. lb.; ext. opii liq., 5s. 3d. lb.; ext. opii sicc., 4s. 3d. oz.; hydrarg. oxid. flav., 8s. 9d. lb.; hydrarg. subchlor., 7s. 1d. lb.; hydrargyrum ammon., 7s. 11d. lb.; inf. aurantii, ex conc., 3s. 10d. lb.; lini sem. contus., E.I. (14-lb. lots), 51s. 6d. cwt.; lin. camph., 3s. 4d. lb.; lin. opii meth., 4s. 9d. lb.; liq. am. acet. conc., 1s. 9d. lb.; liq. ammon. acet. fort., 1s. 6d. lb.; liq. bism. et am. cit., 1s. 8d. lb.; liq. formaldehyd., 2s. 1d. lb.; liq. hamamelidis, 3s. lb.; liq. opii sed., B.P.C., 8s. 2d. lb.; methylsulphonal, 2s. 6d. oz.; morph. acet., 3s. 2d. dr.; morph. hydrochl., 18s. 6d. oz.; ol. carbolat., 5 per cent., 2s. 6d. lb.; ol. caryoph., 11s. lb.; ol. limonis, 6s. 8d. lb.; ol. lini, B.P., 5s. 3d. gal.; ol. menth. pip., redistilled, 45s. lb.; ol. morrhua (Norwegian opt.), 9s. 6d. gal.; pot. brom., 1s. 11d. lb.; pot. permang., 3s. 2d. lb.; pulv. cretæ aromat., 2s. 6d. lb.; pulv. cretæ arom. c. opio, 5s. lb.; pulv. ipecac. co., 3s. 2d. lb.; pulv. sodæ tart. eff., 10.5d. doz.; sacc. lact. pulv., 2s. 2d. lb.; salicin, 3s. oz.; salol, 6½d. oz.; sodii benz. (artificial), 4½d. oz.; sodii glycerophos. cryst., 1s. 6d. oz.; spt. vini meth., 10s. gal.; sulphur sublim., 6d. lb.; tr. ergotæ ammon., 8s. 6d. lb.; tr. opii, 5s. 8d. lb.; tr. opii ammon., 5s. 8d. lb.; ung. methyl. salicyl. dil., B.P.C., 3s. 10d. lb.; vinum ferri, 4s. 3d. lb.; zinci sulph., 8d. lb.

*Higher.*—Acid. acetylsal. pulv., 5½d. oz.; acid. boric. (crystals), 1s. 2½d. lb.; acid. boric. (pulv.), 1s. 3½d. lb.; ammon. brom., 2s. 1d. lb.; lin. ammon., 3s. 10d. lb.; menthol, 3s. oz.; phenazon., 1s. 4d. oz.; sodii brom., 2s. lb.

## Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

### 42 Cannon Street, E.C. 4, May 26.

THE coal dispute is still unsettled at the time of writing, and until it is settled and the terms announced it is a matter of great difficulty to indulge in any forecasts of the future. If, however, the terms of settlement are such as are likely to prove lasting, then an improvement in trade may certainly be expected at an early date. Meanwhile consumers continue to buy only for their immediate requirements, and these are quite modest in quantity. Export trading with the United States shows rather an improving tendency than otherwise, but Continental business is very poor on the whole, although Germany is taking the lead as a buyer again. It is apparent that London to-day is the cheapest world market for crude drugs and chemicals of all kinds, principally on account of the fact that good stocks are held and, owing to the long period of depression, substantial price concessions are made when firm business is offered. When demand does revive, however, many of the unduly low-priced products will improve. The bulk of the changes in values are still downwards. Menthol and Japanese camphor are easier; cod-liver oil is weak. Honey is slow of sale, prices favouring buyers. Several of the American crude drugs are cheaper, these including euonymus (wahoo), serpentary, balsam tolu, copaiba, and senega to arrive. Canary seed is easier; cumin and linseed are firmer; fenugreek is very quiet, and coriander steady. African ginger is easier, but sound Jamaica in second-hands is held for a further advance. Linseed oil and Hankow wood oils are higher. Isinglass at auction was steady. Shellac has been quiet at the advanced rates, and turpentine has reacted about 6s. per cwt.

Higher	Firmer	Easier	Lower
Citronella oil (Ceylon)	Atropine sulph. (dealers)	Alum	Acetanilide
Ginger (Jamaica)	Benzoic acid	Anise oil, star	Amyl salicylate
Linseed oil	Chillies	Balsam tolu	Bromstyrol
Shellac	Citric acid	Camphor	Celery seed
Wood oil (Ch.)	Cumin seed	(Jp. ref. slabs)	Cream of tartar
	Guaiacul carb.	Canary seed	Euonymus bark
	Linseed	Cassia oil	Milk sugar
	Naphtha, solvent	Gentian	Patchouli oil
	Pepper	Ginger (African)	Peppermint oil
	Pot. bichromate	Gingergrass oil	(Amer.)
	Toluol	Lemongrass oil	Potashes
		Menthol	(Montreal)
		Orange oil	Serpentary root
		Petitgrain oil	Tannic acid,
		Potash bromide	leviss.
		Potash caustic	Vetivert oil
		Sodium chlorate	Wintergreen oil
		Sodium nitrate	Wormseed oil
		Spearment oil	

### Cablegrams.

NEW YORK, May 24.—Business is fair. Menthol is lower at \$3.73 per lb. and peppermint oil is 10c. cheaper at \$2.40. Sweet oil of birch is 50c. lower than a month ago at \$3.50. Senega has been reduced to 60c., gentian to 8c., and euonymus bark (wahoo) to 75c. Balsam Peru has declined to \$1.55 and stramonium leaves to 19c. Benzoates are cheaper, sodium having been reduced to 55c. and benzoic acid to 65c. per lb.

BERGEN, May 26.—The total catch of Norwegian cod since the opening of the season now amounts to 36,600,000 (last week, 36,100,000), against 32,700,000 at the corresponding period of last year, and the yield of steam-refined oil is 53,997 hectolitres (last week, 53,505 hectolitres), against 49,538 hectolitres at the corresponding period of 1920. Finest new Lofoten medicinal oil is firm at about 99s. per barrel c.i.f. London.

### Crude Drugs, etc.

AGAR-AGAR.—No. 1 Kobe strip is quoted at 1s. 11d. to 2s. per lb., and No. 2 is slightly easier at 1s. 9d.

ALOES.—Good livery Curaçao can be had at 85s. per cwt.

AMYL SALICYLATE has been reduced on the spot to 2s. 6d. per lb.

ANTIMONY.—English refined has been booked for about 100 tons for early shipment to Russia, the business having been arranged through Stockholm. The tone is irregular, English standing at 40l. to 42l. for small lots, according to brand. Hamburg is still inquiring for foreign regulus, which is quoted 24l. 10s. to 25l. c.i.f. Crude is quite nominal and neglected at about 17l. 10s. to 18l. per ton c.i.f.

BALSAMS.—Peru is quoted lower from New York (see cable), and on the spot 7s. 6d. per lb. is asked, with business at a fraction less. Tolu is 1s. 9d. to 1s. 10d. on the spot. Copaiba is flat, with filtered Maranhão offering at 2s. 3d. to 2s. 4d. per lb.

BROMSTYROL is cheaper on the spot at 13s. per lb. BUCHU LEAVES are firmly held, in spite of arrivals. For good round green 9s. per lb. is asked, and 8s. 6d. for ovals.

CAMPHOR is the turn easier, Japanese 2½-lb. refined slabs offering at 3s. 5d. to 3s. 6d. per lb. and Chinese at 3s. 5d. on the spot. Crude is quoted at from 2s. 4d. to 2s. 6d. per lb. Some business has been done at the lower price for parcels afloat.

CINCHONA.—At Amsterdam, on June 8, 783 packages Java pharmaceutical bark, weighing 48,920 kilos., will be offered.

COCOA BUTTER.—Prime English is 1s. 10d. per lb. for not less than 1-ton lots.

COD-LIVER OIL.—Our Bergen correspondent writes on May 18: "Owing to more demand for cod-liver oil and to the rising value of the Norwegian crown, the price has advanced lately, and up to 99s. per barrel c.i.f. London has been paid; some sellers are asking up to 104s." The total result of all the Norwegian cod-fisheries compared with that of the previous years is as follows:

	Catch of cod (millions)	Steam-refined cod-liver oil (hectol.)	Livers for crude oil (hectol.)
To May 14, 1921	36.100	53.505	12.045
" " 15. 1920	32.400	49.068	5.314
" " 17. 1919	23.700	29.188	4.060
" " 18. 1918	17.300	16.039	6.431
" " 19. 1917	23.000	33.141	3.499
" " 13. 1916	43.900	52.220	4.796

In London agents quote from 90s. to 95s. per barrel of 25 Imperial gallons net c.i.f. U.K. ports for finest 1921 non-freezing Lofoten oil; market is regarded as weak.

DRAGON'S BLOOD.—Reboiled is inquired for, but the stocks have been cleared.

EGG PRODUCTS are quiet, with sellers of prime Chinese liquid yolk at 125s. per cwt.; for May-July shipment there are sellers at 82s. 6d. per cwt. c.i.f. Dried yolk is 5d. and sprayed whole egg 1s.; Native dried whole is 6d.—all spot. Prime hen albumen is 2s. 7d. per lb. on the spot and 2s. 6½d. per lb. c.i.f. for May-July shipment.

ERGOT.—Spot stocks are said to be getting into smaller compass, and a few bags are offered at 4s. 9d. per lb. for Portuguese and 5s. for Spanish, which prices are rather lower than those asked from Spain.

EUONYMUS BARK.—Our New York cable quotes the lower price of 75c. (say. 3s. 9d. per lb.), but offers have been made down to 3s. c.i.f. from the United States. Spot prices vary from 3s. 9d. to 4s. per lb. net.

FARINA continues quiet, with Japanese No. 1 offering for May-June shipment at 19s. 6d. per cwt. c.i.f., and the spot value is 22s. Dutch on the spot is 19s. 6d. and May-June shipment 18s. c.i.f.

GENTIAN is a trifle easier on the spot, French offering at 52s. 6d. per cwt.

GUM ACACIA is quiet, with usual f.a.q. Sudan sorts offering at 45s., and cleaned at 47s. 6d. per cwt.

HELIOTROPINE is quiet on the spot at about 11s. per lb.

HONEY is dull of sale, amber to finest pale Jamaica offering at from 40s. to 65s. and dark at 40s. per cwt. Australian can be had at 30s.

**INSECT FLOWERS.**—Japanese offer on the spot at 220s. per cwt. for good closed. Dalmatian on the spot have been in fair demand and closed offer at 265s. per cwt. Forward prices are difficult to quote owing to the frequent fluctuations in the rate of exchange.

**IPECACUANHA** is slow at from 9s. to 9s. 6d. per lb. for Matto Grosso, as to quality.

**LINSEED OIL.**—Conflicting views are in circulation as to the future of prices. Strong markets are being forecasted by certain Continental trade experts, while a speculative movement has apparently developed in France, but more guarded and conservative views prevail on this side. The demand all the same has been again quite good this week at a further lift of prices. America so far has not been buying any very large quantities of the River Plate crop, but the European demand has been quite sufficient to keep seed on the firm side. Naked oil closes at 31l. 10s. per ton in London and 29l. 5s. in Hull, an advance of 20s. on the week.

**MAGNESIUM.**—The metal shows considerable irregularity. Fresh offers of Continental have been reported lately at around 4s. 3d. per lb. c.i.f., but home producers demand the comparatively high figure of 6s. per lb. delivered to buyers.

**MENTHOL** is quiet and easier, with sellers of Kobayashi-Suzuki at 21s. per lb. on the spot, and May-June shipment offering at 17s. 6d. to 18s. c.i.f.

**MERCURY.**—There is no improvement in the demand for export, and with home business practically at a standstill the market is anything but promising at the moment. Quotations are widely divergent at 11l. to 11l. 10s. per bottle.

**MUSK.**—Confirming the statement made in our issue of May 14, we understand that great difficulties are still being experienced by importers of natural musk, which practically explains the high prices asked for this product. It has been quite impossible to transfer money, on account of the troubles that have arisen in the neighbourhood of Thibet. These troubles, which caused encounters between regulars of the Yunnan and brigands of the Szechuen provinces, lasted over six weeks. During this time the musk-hunters dared not undertake their usual work. For this good reason a much smaller quantity has been imported of late, and as the improvement in the exchange has also to be taken into consideration we do not expect that lower figures will rule for several months hence.

**NUX VOMICA** is somewhat scarce on the spot, as most of the recent arrivals appear to have gone into consumption. Several lots of Cocanada are offering at 52s. 6d. per cwt., which buyers regard as too high. C.i.f. offers are difficult to get.

**OLIBANUM** is dull, with pale drop offering at from 120s. to 130s., middling at 80s., garblings at 55s. to 75s., and siftings at 70s. per cwt.

**OPIMUM.**—The London market is unchanged, with Turkey druggists' offering at from 12s. to 14s. per lb., according to test.

**SMYRNA, April 29.**—The sales of opium during the last three weeks amount to 71 cases, from piastres 625 per oke, and ending at piastres 790 for extra druggists' manufacturing qualities. The equivalent in sterling per lb., with an exchange then at piastres 570 per pound sterling, and to-day's at piastres 540, is from 9s. to 11s. per lb. The market closes very firm, with an upward tendency. The exchange to-day is weak at piastres 540 per pound sterling for cheque, and \$0.73 for one Turkish pound of piastres 100. The arrivals to date are 1,317 cases, against 1,575 at same date last year, and our stock to-day in first and second hands is now 1,164 cases.

**PAPAIN** of good quality can be had at 10s. per lb. on the spot.

**PEACH-KERNEL OIL** is quoted by importers at 1s. 3d. per lb.

**PLATINUM.**—The demand continues good on the basis of 17l. per oz., and a steady business is being done by outside interests thereat, although the leaders of the industry still keep their limit for refined at the relatively high figure of 20l. per oz.

**RHUBARB.**—Sales are quite retail, and prices, with the exception of finest Shensi, are easy. The following rates

are quoted: Rough, round native High-dried, 3s. to 3s. 3d.; good flat High-dried, 4s. to 5s.; Shensi, finest, 7s. 6d.; and other qualities from 5s. to 6s. 6d.

**SAFROL** is quoted on the spot at 3s. 1d. per lb.

**SASSAFRAS BARK** is offered at from 2s. 3d. to 2s. 6d. per lb. for selected on the spot.

**SENEGA.**—Spot prices are from 3s. 3d. to 3s. 6d. per lb., the latter for single bales. Prompt shipment is quoted at 3s. and August at 2s. 7d. c.i.f.

**SERPENTARY ROOT.**—Spot stocks are exhausted, but to arrive quotations are slightly easier at 5s. 6d. per lb. c.i.f.

**SHELLAC** is about 5s. per cwt. higher on the spot, sellers of usual standard TN Orange quality quoting 410s. per cwt.; fine lemon is 475s.; fine second orange, 450s.; and AC cakey, 310s. Futures have been irregular, sales including May at from 395s. to 400s. and August at 325s., 350s., to 335s. Sales to arrive May-June shipment have been made at 315s. to 320s. c.i.f.

**STRAMONIUM LEAVES** are in fair demand, spot prices varying from 120s. up to 145s. per cwt. according to colour.

**TURPENTINE.**—It seems clear that the dearth of warehouse supplies will not be relieved to any notable extent just yet, and supplies in American hands are rather tightly held for the present. Holders of stock at this end are hard to deal with, and the market is tending upward once more. In the last two weeks withdrawals from stocks have been again substantial and the balance has now dwindled to below 10,000 barrels of American spirit, with only a limited quantity of French available. The trade is left entirely in the dark in regard to crop possibilities. Spot and May delivery close at 94s. per cwt., a reduction of about 6s. on the week.

**WAX, VEGETABLE.**—Japanese is steady, with spot sellers at 90s. per cwt. and to arrive at 73s. c.i.f. Fatty grey *Carnauba* is quoted at 105s. and chalky at 100s.

**WOOD OIL.**—Chinese continues scarce, good quality being held for 70s. per cwt. on the spot and buyers at 5s. less; for shipment 60s. 6d. c.i.f. is quoted.

### Seeds and Spices.

**ALMONDS** are firm and tending dearer with a good demand. Jordans are getting scarce, and as the new crop will not be available for two to three months, they may be temporarily unprocurable.

**ANISE** is quiet and unchanged at 75s. per cwt. for Russian and 75s. to 77s. 6d. for Spanish.

**ARROWROOT.**—Common to fair manufacturing St. Vincent is quoted at from 2½d. to 3d., good 3½d., and grocery 4d. to 6½d. per lb.

**CANARY SEED** is rather easier at 82s. 6d. to 85s. per quarter for ordinary and 107s. 6d. for good Morocco.

**CARAWAY SEED** is slow of sale at 28s. to 30s. per cwt. for fair to good Dutch on the spot.

**CASSIA LIGNEA** sells slowly, whole selected offering at 29s. and broken at 22s. 6d. per cwt. on the spot.

**CELERY SEED** is rather cheaper, spot offering at 85s. per cwt. for French.

**CHILLIES** are scarce and firmer, particularly good bright Mombasa or Zanzibar, up to 135s. being asked in second hands. Bombay *capsicums* are quoted up to 80s. for the best in small lots from dealers.

**CINNAMON** is slow and prices nominal, with Ceylon firsts offering at 1s. 3d., seconds 1s. 2d., thirds 1s., fourths 10d., and chips 3d. per lb.

**CLOVES.**—Zanzibar are quiet and prices easy at from 9d. to 9½d. per lb. as to quality, and for April-May shipment 8½d. c.i.f. is quoted.

**CORIANDER SEED** is steady at 18s. 6d. per cwt. for sound Morocco and at 9s. to 11s. 6d. for wormy to slightly wormy.

**CUMIN SEED** is firmer, owing to depletion of stocks; common is quoted 20s. to 22s. 6d. and good 24s. to 25s. per cwt.

**DILL SEED** is unchanged at 24s. 6d. per cwt.

**FENNEL SEED.**—The price remains nominally unchanged at 35s. to 37s. 6d. per cwt.

**FENUGREEK SEED** is very quiet at 9s. 6d. to 10s. per cwt. for fair to good Morocco.

**GINGER.**—Cochin is dull, with new-crop washed rough offering at 43s. to 45s. per cwt. on the spot, and old wormy at 30s. to 35s. Quality of new-crop Cochin is only moderate, but as sound parcels are scarce it should sell readily. Sierra Leone is slightly cheaper at 30s. to 32s. 6d., and Japanese is unchanged at 37s. Sound Jamaica is now cleared, with the exception of a few parcels in second hands, for which up to 170s. is asked for good sound bold.

**LINSEED** is firmer at 22s. 6d. to 24s. per cwt. for fair to good bold.

**MACE** continues cheap, with only a slow demand, good Singapore offering at 1s. 4d., fair 1s. 2d. to 1s. 3d., ordinary 11d. to 1s., and pickings 10d. to 11d.; good West Indian, 1s. 1d. to 1s. 2d.

**NUTMEGS** are dull, with recent arrivals of Singapore offering at 7½d. per lb. for 110's, 1s. 1d. for 80's, cases 1s. 1½d., and 65's 1s. 4½d. per lb. West Indian sell slowly and prices are nominal.

**PARSLEY SEED.**—The spot value of French is about 50s. per cwt.

**PEPPER.**—Fair black Singapore is firmer, with spot sales at 3½d. to 3¼d. per lb.; June-August shipment has been sold at 3½d. to 4d. c.i.f., and July-September at 3½d. to 4½d. c.i.f. Lampong is 4½d., Tellicherry 4½d., and Aleppy is 4½d. per lb.—all spot. White is also firmer at 8½d. spot for fair Muntok, at which business has been done; sales of June-August have been made at 8½d. to 8½d. c.i.f.; Singapore on the spot is 8½d., and the value of June-August shipment is 8d. c.i.f. According to the latest return the stock of black is 4,096 tons, against 6,818 tons in 1920; and the stock of white is comparatively light at 975 tons, against 1,704 tons in 1920.

**PIMENTO** is quiet, with spot sales at 2½d. per lb. The London stock is 34,502 bags, against 46,265 bags in 1920.

### Essential Oils.

**CEYLON citronella oil** has come in for a fair amount of attention this week, and prices all round are higher. Spot stocks are said to be practically exhausted. Sicilian oils are substantially unchanged, although orange shows a slightly weaker tendency. Anise, star, and cassia are easier; gingergrass and lemongrass are cheaper, with small demand. Paraguayan petitgrain, spearmint, and wormseed have also declined slightly. Patchouli and wintergreen are lower. American peppermint oil, which is interesting more buyers in the States, is offered on the spot at slightly easier prices.

**ANISE, STAR,** is quiet, and 1s. 11d. to 2s. per lb. is now the general quotation on the spot; the value of May-June shipment is given from 2s. 1d. c.i.f. upwards.

**BAY.**—West Indian ranges from 15s. to 17s. per lb. on the spot according to quality and holder.

**BERGAMOT** is unchanged at last week's figures, from 23s. to 25s. per lb. being general for 37 to 39 l.a. To come forward the price is maintained at from 23s. all the way to 28s. c.i.f.

**CASSIA** is quiet on the spot, with sellers of 80 to 35 c.a. at from 3s. 11d. to 4s. per lb. To come forward the price is easier at 3s. 3d. c.i.f.

**CEDARWOOD.**—Spot stocks are not too plentiful and from 3s. to 3s. 2d. per lb. is about the value.

**CINNAMON.**—Ceylon leaf is quiet at from 5d. to 5½d. per oz. on the spot. Usual holders say there are no spot supplies of Seychelles at present, and about 4s. 9d. c.i.f. is the price to come forward.

**CITRONELLA** is dearer. Spot sales have been made at from 1s. 2½d. to 1s. 3d. per lb. in drums for Ceylon, and, as stocks are low, only a limited quantity is offering at from 1s. 3d. to 1s. 3½d. To come forward bids of 1s. 1d. c.i.f. have been ignored, and dealers' ideas of what would be accepted vary from 1s. 2d. to 1s. 3½d. c.i.f. Java is nominal at 2s. 9d.

The exports from Ceylon from January 1 to April 14, 1921, amounted to 228,307 lb. The figures for the corresponding periods in previous years were: 1920, 292,746 lb.; 1919, 302,915 lb.; 1918, 327,315 lb.

**GINGERGRASS.**—"Insoluble" is weaker on the spot at from 11s. 9d. to 12s. per lb.

**LEMON** continues to be extremely irregular to arrive, the

prices ranging from 2s. 9d. to 3s. 8d. per lb. c.i.f. On the spot, however, from 2s. 10d. to 3s. 2d. per lb. probably represents quotations for best brands.

**LEMONGRASS.**—Cochin is dull and easier at 4d. per oz. for spot. To come forward would probably be done at 2½d. c.i.f., but it is without interest.

**LIME.**—Fair West Indian distilled can be had at 3s. 1½d. per lb. Hand-pressed is nominal at 22s.

**MINT.**—Japanese dementholised Kobayashi-Suzuki is unchanged at 4s. 3d. per lb. spot and 4s. 3d. c.i.f. to arrive.

**ORANGE.**—Sicilian sweet has slackened slightly in price at the source, and 10s. 6d. to 12s. 9d. per lb. c.i.f. would buy good brands, although in some directions 14s. is still named. Spot is obtained according to holder and quantity at from 11s. to 14s. per lb.

**PALMAROSA** is unchanged at from 16s. to 16s. 6d. per lb. for spot.

**PATCHOULI** on the spot is lower, with sellers at 50s. per lb.

**PEPPERMINT.**—American tin oil has been reduced on the spot, and from 14s. 6d. to 16s. 6d. per lb. are the current quotations. To come forward 12s. 3d. to 12s. 6d. c.i.f. could be done.

**PETITGRAIN.**—Paraguayan is dull and on the easy side at from 13s. to 14s. per lb.

**ROSEMARY.**—Spanish has been in small demand at 2s. 3d. per lb. spot.

**SASSAFRAS.**—Natural on the spot is quoted at 9s. to 9s. 1½d. per lb., according to seller.

**SPEARMINT.**—Spot demand is slow, and quotations range from 32s. 6d. to 34s. per lb., according to quantity, being easier.

**WINTERGREEN (SWEET BIRCH OIL).**—Spot quotations are lower at from 21s. to 22s. 6d. per lb.

**WORMSEED** is slightly easier at from 17s. to 18s. per lb.

### Pharmaceutical Chemicals.

The general hope expressed for an early improvement in business in this market has not yet been realised, but there is a confident feeling that, with the settlement of the prolonged miners' dispute, an immediate revival of activity would take place. Values are generally unchanged, but a few products, including benzonaphthol, benzoates, guaiacol carbonate, paraldehyde, and phenazone have a steadier feeling. Acetanilide, aspirin, sulphonal, cream of tartar, hexamine, and the bromides are weaker.

**ACETANILIDE** is only being asked for occasionally, and prices are nominal. It would be possible to buy at 1s. 4d. per lb., from which figure prices rise to 1s. 9d.

**ALOLIN** is now generally quoted at about 5s. 3d. per lb. from dealers, with limited business being done.

**AMIDOPYRIN** continues on the quiet side, with quotations averaging about 22s. per lb.

**ASPIRIN** is now quoted at about 3s. 6d. for best quality material, with occasional weak sellers, who quote down to 3s. 4d.

**ATROPINE SULPHATE** has advanced during the week and is now offering at 24s. per oz. in dealers' hands.

**BARBITONE** continues quiet, with quotations well maintained at the steady figure of 15s. per lb.

**BENZOIC ACID** is showing up firmer this week, and is difficult to obtain under 2s. 6d. per lb.

**BENZONAPHTHOL** is steadier this week, with offers averaging about 9s. per lb.

**BETANAPHTHOL.**—Resublimed is freely offered at about 4s. per lb.

**BROMIDES** are still offering in liberal quantities, with but a poor demand. Potassium crystals and granular, are again a little easier this week at about 10d. per lb.; ammonium is offering at about 1s. 2d.; sodium at about 1s. 1d. All figures are easy.

**CAFFEINE** has been in slightly better demand, with the pure alkaloid offering at 20s. to 21s. per lb. for imported.

**CALCIUM LACTATE** is steadier this week at last week's reduced figure of 2s. 3d. per lb.; the demand is poor.

**CHLORAL HYDRATE** is unchanged at 4s. 9d. to 5s. per lb., duty paid; market continues quiet.

**CITRIC ACID** has experienced another slight advance; quotations are fairly steady at 2s. 6d. to 2s. 6½d. per lb., less 5 per cent. Limited business is being done.

**CREAM OF TARTAR** is rather lower, 99 to 100 per cent. powder offering on the spot at 135s. per cwt. and 130s. c.i.f. in ton lots to come forward.

**CREOSOTE, B.P.**, is quoted unchanged and quiet at 5s. per lb.

**CREOSOTE CARBONATE** continues quiet, with values well maintained at 15s. 6d. to 16s. per lb.

**GUAIACOL CARBONATE** is showing up a little firmer this week at about 15s. per lb. There is, however, but small demand.

**HEXAMINE** continues quiet, and quotations are now being made at from 5s. 3d. to 5s. 6d. per lb., and to arrive 5s. c.i.f. is quoted.

**HYDROQUINONE** continues quiet and steady at about 5s. 6d. to 5s. 9d. per lb. Continental makers ask the equivalent of 6s. 6d.

**IODIDES**.—There is no change in the convention prices of 17s. 8d. for resublimed iodine, and 17s. for crude.

**METHYL SALICYLATE** is steadier after the recent declines at 2s. 6d. to 2s. 9d. per lb., according to quantity. There is a fairly good demand.

**METHYL SULPHONAL** continues quiet, but values are well maintained at 21s. to 22s. per lb. for B.P., with U.S.P. offered at 17s.

**MILK SUGAR** is rather cheaper, importers offering B.P. powder at from 140s. to 142s. 6d. per cwt. as to quantity.

**PARAFORMALDEHYDE** is quiet, with values steady at 4s. per lb.

**PARALDEHYDE** is much steadier, and no quotations are being made under 2s. to 2s. 3d. per lb.

**PHENACETIN** is unchanged at from 7s. 6d. to 8s. per lb. and to arrive 7s. c.i.f. is quoted. The demand is not good.

**PHENAZONE** is a little firmer at 8s. 9d. per lb.

**PHENOLPHTHALEIN** continues quiet, with values about the same at 4s. 9d. to 5s. per lb.

**PIPERAZINE** is still offering at 4s. 6d. per oz., but is not being taken up.

**POTASSIUM PERMANGANATE, B.P.**, is still generally offering at 1s. 9d. to 1s. 10d. per lb., with limited business being done; odd parcels are offering a little cheaper.

**POTASSIUM SULPHOGUAIACOLATE** continues unchanged at 8s. 6d. to 9s. per lb.; values are quite firm at these figures.

**QUININE SULPHATE** has experienced a slight decline during the week, but is now firm at 3s. 8d. per oz. for small lots from dealers.

**SALICYLATES**.—Salicylic acid, B.P., continues quiet, with values unchanged at about 1s. 4d. to 1s. 6d. per lb. Sodium salicylate, powder, continues to be offered at about last week's figures of 2s. 6d. to 2s. 8d. per lb. The demand is not good, and prices are not at all firm.

**SALOL** is unchanged at 3s. 3d. to 3s. 6d. per lb. on a quiet market.

**SODIUM BENZOATE** is well maintained at the recently advanced figure of 2s. 6d. per lb. Although U.S. prices for benzoates have been reduced, they are still above the London parity.

**SODIUM DIETHYLBARBITURATE** is inactive, but quotations are well maintained at 24s. 6d. to 25s. per lb.

**SULPHONAL** is lower at about 20s. to 21s. per lb. on the spot.

**TANNIC ACID**.—*Leviss* is showing up a little easier this week at 4s. 9d. per lb.

**TARTARIC ACID** varies from 1s. 7½d. to 1s. 8d. per lb. on the spot from dealers.

**THYMOL** continues lifeless, with values nominal at about 25s. to 26s. per lb.

### Heavy Chemicals.

May 25.

THERE is still no improvement to record in the tone of the market, and business has for some considerable time past continued extremely quiet. A certain amount of inquiry continues to come to hand, and there seems to be a general opinion that trade will revive considerably directly there is a settlement of the unfortunate labour

troubles that have overshadowed the market during the past two months.

**ACETIC ACID** is still offering from limited stocks, but the demand is very light indeed; 80 per cent. technical 45l. and 98 per cent. glacial 54l. to 55l. per ton; values are unchanged.

**ALUM** is showing up a little easier this week and now quoted at 18l. per ton on a very quiet market; Continental stuff is offering f.o.b. at very cheap figures.

**ARSENIC**.—Recently cheap lots of Cornish in second-hand were sold down to about 44l. per ton, but a more active demand is reported in some quarters, and producers' agents ask 45l. to 47l. per ton delivered London or Liverpool. Parcels of Grecian have been handled lately at about 45l. c.i.f. to arrive, and it is claimed that the sellers have refused further orders at this price.

**BLEACHING POWDER** is not being inquired for, and 35 to 37 per cent. material in hardwood casks continues to be offered at 19l. per ton.

**COPPER SULPHATE**.—Much of the recent confusion arising from the widely divergent quotations circulated by dealers and producers would probably have been prevented by giving particulars of terms of delivery and packing. F.o.b. Liverpool quotations for casks less 5 per cent. are still about 32l. per ton for export. Home business is very poor, but a very fair overseas demand is reported.

**EPSOM SALT** is still quiet, and there are no signs of a renewal of the recent temporary activity; quotations are unchanged at 9l. per ton for commercial quality in single bags and 10l. 10s. for pharmaceutical quality.

**FORMALDEHYDE** continues to be offered round about 100l. per ton, but is quite neglected.

**LEAD ACETATE** continues inert, still no business being recorded; values nominal at 50l. per ton for brown broken and 56l. for white crystals.

**LEAD PRODUCTS**.—There is a steadier undertone in white lead, some of the makers being said to be rather better booked. The clearing of stocks, either in white lead or oxide, has made improved progress, and the outlook is more hopeful after the long slackness. There has been no further change in prices.

**LIME ACETATE** (80 per cent. grey American material) is freely offering at 15l. per ton, but there is still no demand.

**LITHOPONE** continues quiet, with values unchanged at about 30l. for 30 per cent. Continental red seal and 35l. per ton for green seal.

**OXALIC ACID** is now steady at 10d. per lb.; market still dull.

**POTASH CAUSTIC** is showing up easier this week, with the market continuing extremely quiet at 43l. to 45l. per ton for 88 to 92 per cent. material.

**POTASHES** are lower, Montreal offering at 175s. per cwt. for firsts.

**POTASSIUM BICHROMATE** continues to be offered by makers at 10½d. per lb.; spot lots have firmed up to 10½d. also; the demand is very light.

**POTASSIUM CARBONATE** continues to be offered by makers at 45l. per ton for 90 to 92 per cent. material.

**POTASSIUM CHLORATE** is quoted by makers at 5½d.; spot quotations from dealers average about 6d. per lb.; demand is far from brisk.

**POTASSIUM PERMANGANATE** continues to be offered at 1s. 8d. per lb. for imported, with moderate business being done; makers' prices are maintained at 1s. 9d. per lb.

**POTASSIUM SULPHATE** continues to be quoted by makers at 20l. per ton for 90 per cent. material ex ship.

**SALTCAKE** continues to drag, and holders find it impossible to make sales at any figure, there being no demand; value is nominal at 6l. 10s. per ton f.o.b. in bulk.

**SODA ASH** (58 per cent. light alkali) is fairly well maintained at 9l. per ton f.o.b., with the market rather inactive; makers' prices for home trade only are unchanged at 8l. 10s. per ton in bags.

**SODA CRYSTALS**.—English makers' prices are maintained at the old figure of 7l. per ton in bags, carriage paid.

**SODIUM BICARBONATE**.—Makers' prices for home trade only 12l. per ton in 2-cwt. bags.

**SODIUM CAUSTIC**.—Makers' prices are 26l. 15s. per ton for 76 to 77 per cent. in light drums f.o.r. and 24l. 10s.

70 to 72 per cent. material; spot parcels are offering 27. to 237. per ton f.o.b. for English 70 to 72 per cent.; American 76 per cent. quoted at competitive figures c.i.f. continental ports and United Kingdom. A little better price is being received.

SODIUM CHLORATE is now quoted by makers at 4½d., spot quotations are also round about this figure.

SODIUM CYANIDE is still quoted by makers unchanged at per lb. for 100 per cent. basis.

SODIUM HYPOSULPHITE is in a little better demand. Photographic, pea crystals, packed in sound kegs, are being in limited quantities at 267. per ton; commercial quality is not in such good demand, and offering at about 197. per ton; makers' prices, the latter 197. and 267. for photographic.

SODIUM NITRATE is a little easier this week by makers 97. 15s. per ton for 96 per cent. refined material f.o.r. Liverpool; market continues quiet.

SODIUM NITRITE is still dull, with makers' prices unchanged at 427. per ton for 100 per cent. material.

SODIUM PRUSSATE is well maintained at the makers' recently reduced prices of 7½d. per lb.; spot lots continue to be offered at about the same figures; demand is very light.

SODIUM SULPHIDE continues to be offered by makers at per ton for 60 to 65 per cent. concentrated in casks; lots of 60 to 62 per cent. solid are now quoted at 107. per ton; a further reduction has failed to bring business, which continues extremely quiet.

SODIUM SULPHITE.—Anhydrous is still lifeless, with prices nominal at 287. per ton; crystals are quoted by makers at 217. 10s. per ton for home trade only.

ZINC CRYSTALS continue to be offered by makers at 1s. 5d. per lb. for best quality.

ZINC PRODUCTS.—Zinc dust still hangs fire, due to the lack of manufacturing plants in the provincial centres account of the lack of fuel. Quotations are as before. Zinc oxide is steady and not much wanted at late rates.

TAR PRODUCTS, ETC.—There is very little change of importance to record in this market again this week; prices generally are being fairly well maintained and very limited business is recorded. Aniline oil and creosote continue to be quoted at 1s. 4d. per lb., but the demand is not good. Benzol is quoted unchanged on a spot market at 2s. 6d. per gallon for pure and 2s. 5d. for 90 per cent. Bctanaphthol continues rather quiet, with quotations unchanged at 1s. 9d. per lb. Solvent naphtha (90 to 160) has experienced a slight advance and is now quoted at 2s. 2d. per gallon. Toluol is a little dearer this week at 2s. 4d. per gallon for pure and 2s. 10d. for commercial. Creosote oil is quoted unchanged at 7½d. per gallon, but the demand is not good.

Carbolic acid crystals are only moving occasionally and the price is being maintained with difficulty at 7½d. per lb. Cresylic acid is quoted unchanged at 10d. for crude and 2s. 4d. per gallon for 97 to 99 per cent. Naphthalene is only moving in very limited quantities, but quotations are fairly well maintained at the following figures: Crude, 67. to 97.; powder, 227.; flakes, 2s.; tablets, 407. per ton. The hot weather should stimulate the demand. Pitch continues almost lifeless, with values nominal.

### Sicilian Citrate of Lime.

The demand for citrate of lime in Sicily was unusually high during the first part of 1920, in spite of the increased price fixed by the Camera Agrumaria. Sales during the year amounted to above 11,000 tons, compared with an average production during the five previous years of less than 8,000. On November 30, 1920, at the close of the season, stocks on hand in the warehouses of the syndicate amounted to about 8,000 tons, or approximately one year's normal production. During the last months of the year, however, there was a decided falling-off in the demand, and prices abroad slumped to a point where further sales were extremely difficult to make at the price established. Owing to the large lemon crop and the unfavourable condition of the market for fresh fruit there will undoubtedly be an exceptionally large production of citrate of lime during 1921, a production estimated by one of the leading experts at 14,000 tons. If this amount is added to the stocks now on hand of 8,000 tons, and also the portion of last year's

production retained by the producers and not delivered to the syndicate, probably about 3,000 tons, there results a total of 25,000 tons. Deducting the estimated sales for the year of 5,000 tons, there would remain at the end of the season about 20,000 tons, or more than two years' normal production.

### The Tax on German Imports.

THE advance information we gave last week (pp. 49-50) in regard to the reduction of the amount of the German Reparation levy to 26 per cent. is the subject of a Treasury announcement, which confirms, but adds nothing to what we have already said. Circulars have been issued by the British Chemical Trade Association and the Chemical and Dyestuff Traders' Association dealing with this matter, from which we gather that Germany has undertaken to complete the arrangements for putting this agreement into force by an early date in June, and as soon as these arrangements are completed the following conditions will apply:

(1) Where goods come direct from Germany into the United Kingdom the importer pays 26 per cent. of the value to the British Customs and the remaining 74 per cent. to the German exporter.

(2) Where goods come from Germany through neutral countries into the United Kingdom these will not be taxed by the British Customs authorities, as the German Government will collect the tax before they leave Germany.

The reduction applies only to goods which are imported by vessels arriving within the port of discharge at any time later than midnight of May 12-13. Goods landed before that date will be dealt with on the 50 per cent. basis. With regard to Notice No. 60, if the amount to be paid to the foreign seller exceeds 74 per cent. of the invoice price, the value on which the levy is payable will be a sum which, after the deduction of 26 per cent., represents the amount to be paid to the foreign seller—e.g., if the invoice price is 1007., and the whole of that price is to be paid to the foreign seller, the value to be shown on Form 140 (Sale) will be approximately 1357. 2s. 8d.

### Buchu Leaves.

ACCORDING to the annual statement of the trade and shipping of the Union of South Africa during 1920, the exports of buchu leaves and the countries of destination were as follows:

To	1919		1920	
	lb.	£	lb.	£
United Kingdom ...	31,845	8,047	53,076	23,558
India ...	565	120	300	183
Australia ...	828	191	750	354
New Zealand ...	500	213	344	205
Hong Kong ..	1	—	—	—
Port. East Africa ...	—	—	2	1
Japan ...	—	—	104	65
United States ...	115,247	28,559	84,573	42,877
	149,166	37,130	139,149	67,243

The average annual export for the five years 1910 to 1914 was 204,271 lb., valued at 30,3947., while the average for the five years 1915 to 1919 was 130,161 lb., valued at 23,9377. In 1909 the average price of export buchu was 8d. per lb., in 1910 it rose to 1s. 9d. per lb., and in 1911 to 2s. 9d. per lb. Since then the price has never been below 3s. per lb., and in 1919 it was nearly 5s. per lb. These prices are the averages for all grades exported, but the best variety commanded 6s. 3d. per lb. in 1917, while in 1920 the Cape Town market price ranged from 9s. to 11s. per lb. In the 1919-20 annual report of the Cape Town Chamber of Commerce it is stated that "Our market here opened with quotations of 6s. per lb.; but little business was done until prices advanced to 7s. and 7s. 6d. Even these figures were not long maintained, and soon 8s. was not considered a high price." In London the average price during 1914-19 was 2s. 57. to 5s. 6d. per lb., as to quality. According to an article in the "South African Journal of Industries," the questions which should occupy the close attention of those interested in the buchu trade are: (1) Whether it will pay to cultivate the various species; (2) the gathering of the leaves at the right time and the proper curing; (3) the proper grading of consignments, which should be quite free from adulterants." The world demand for both the buchu herb and oil is rapidly increasing, and the future prospects of buchu as a field crop are good, so that increased interest is being taken in the cultivation of the plant, and experiments in this direction have recently been carried out at the National Botanic Gardens at Kirstenbosch, with very satisfactory results.



Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

#### The Council Election.

SIR,—May I beg the courtesy of your columns to return cordial thanks to the electors for their renewed expression of confidence?  
Yours truly,  
Clydebank.

THOS. GUTHRIE.

SIR,—The annual election for the Council has come and gone and the results are as anticipated, all the retiring members retain their seats, so that actually all the trouble and expense might have been saved. The figures at the poll are nothing to be proud of, for a Society with a round membership of ten thousand to achieve an effective return of 3,975 papers, or considerably less than half the number issued, would be ludicrous were it not so pathetic; but it is possible that the failure to vote is not always so much due to apathy as to the knowledge that one's vote will have little effect on the result. The number of members present at the meeting, sixty out of the ten thousand, is ridiculously small, and although several explanations were put forward, one of the principal ones was not given, and that is the extremely awkward hour at which the meeting was held. Twelve o'clock on a Wednesday morning is an hour at which very few working pharmacists can be at liberty to get to Bloomsbury Square, and it is possible that having regard to the fact that in the majority of areas the early-closing day is on Thursday, if the afternoon of that day were selected the attendance would be much better.

Yours faithfully,

WORKING PHARMACIST (21/5).

#### Spanish Honey.

SIR,—In your last issue to hand I observe some remarks on the production of honey in Spain, and as for some years I have been engaged in this pursuit on a small scale I thought perhaps some notes on the matter, etc., may prove interesting to your readers. As a matter of fact this is a very important industry in this country, but almost universally carried on in skeps made of cork. These are cylinders about 2 feet high and about 8 or 9 inches internal diameter, either in one piece with the edges fastened together, or in two if a suitable-sized tree has not been used to furnish the cylinder in one piece. The top end is closed with a round flat piece of cork, and the whole nailed together with wooden nails made of slivers of the wood of the evergreen oak, which is very hard and can be whittled to a fine point. They are stood upright on flat stones, or in some cases on round pieces of cork a little bigger than the cylinder and about an inch thick. The whole affair is extremely primitive and rustic, but if quality is not aimed at, and it seldom is in this country, the results are good, as each hive is reckoned to produce its own value in honey, wax, and swarms once a year. The whole outfit is worth about eight pesetas, say, six or seven shillings English money, and should give about four kilos. of honey, half a kilo. or less of wax, and a swarm worth, say, three shillings. The bees are not so black as the English native bee, nor so yellow as Italians, and up to the present disease is unknown here. The waxmoth, however, makes sad havoc among the hives, destroying not only the inmates but the actual cork of the hive, which is riddled with holes made by the grubs, and generally has to be burnt after a visit from this wretched insect. Owners of 400 to 500 hives are not uncommon. I know one who owns 450, and yesterday was told of one about fifteen miles from here who has 2,000. They are not as a rule found in large numbers, but scattered about the countryside in groups, four or five up to twenty or more, and often in little stone enclosures with no entrance—you have to jump over the wall to get

in. This is to defeat the efforts of the badgers, who devour the contents of the hive. There are also two birds which live on bees: one, a kind of blue jay called "abejaruce," catches them on the wing; the other, called "filomena," posts itself at the entrance and picks up the bees as they come in. Swarms begin to come along some times as early as February, and are plentiful in March attaining their maximum in April and May, when the great heat begins to dry up the flowers. It must be understood all these remarks refer to conditions in the South of Spain in Andalusia, and my own hives—a English frame hives—are kept round about a little town at the foot of the Sierra Morena, where I have lived for twenty-five years. The beekeepers take out the swarm when things are promising, and wait three weeks for the brood to hatch, then emptying the hive and taking out the contents, which are broken up and roughly filtered through a basket into some vessel. This ensures a very dirty result, as the pollen, grubs, dead bees, and all other kinds of contamination get mixed up with the honey. After this the wax, still with of course much honey, is boiled and the resulting liquid evaporated down to a syrupy consistence. With this are mixed various rinds of fruit and the whole is sold as a sweetmeat under the name "meloja." It is counted a defect in my frame hives that they do not produce this delectable substance. Finally, the wax is delivered to the wax-melter and candle-maker, of whom we have one in the town. He melts presses, and bleaches the wax and makes in into candles which are nearly all consumed in the churches, as, of course, certain candles in a Catholic church must be pure wax. In this man's factory I have seen, just before Holy Week, as much as 6,000 kilos. (six tons) of bleached wax waiting to be made into candles, and after Holy Week not a crumb remained. The wax is bleached by melting it and running it over a wooden roller the under side of which is in water, and as this revolved the wax is cooled into fairly thin flakes, which are spread out in the sun on shallow trays of brickwork smoothed over with mortar and whitewashed, and left there three weeks being turned twice or three times according to the weather. This renders the wax nearly white, but with a slight yellowish tinge. It is then remelted in a shallow pan, over which is a wheel in a horizontal position, round the rim of which are little hooks from which hang the wicks. The worker takes some of the melted wax and pours it down each wick, slowly turning the wheel so that in the course of time number one comes round already set and receives a fresh dose, and so on until the required size is attained. The candles are then taken off, and as they are, of course, thicker at the lower end they are, while still warm and fairly soft, rolled on a slab of hard smooth wood, with a curious curved roller also of hard wood, until they are cylindrical. They are then cut to length and hung up to set. All this work, even the making of the wicks, is done by hand, and I have passed callipers down the candles more than once and weighed the always finding them cylindrical and of equal weight. Practice makes perfect. During the war we used the wax candles in the house, as they were cheaper than the factory-made paraffin-wax candle. We used to take back the stumps and exchange them for fresh candles. I was afraid of making this too long, or I would give you a description of the press, made of a huge oak-tree, and the various other primitive contrivances used here in the work. My own hives are, of course, the usual ten-frame standard hive, some with one lift, others with more, and the honey is taken out with a centrifuge, which was a nine days' wonder when first made and used. The native yeoman farmers, however, do not readily take up new ideas, and no one round about here has adopted the system of beekeeping, and this attitude is practically universal in the country. It will be a very long and hard matter to convince these peasants of the merits of such a scientific way of doing things. Anyhow, if any reader would like any more details, providing, that is, you are fit to publish any of this, I shall be very pleased to furnish them.

Yours truly,

CHARLES E. ROWCROFT  
Zalamea-la-Real, Huelva, Spain.

## Spanish Pharmacy.

SIR,—Cervantes' exemplary novels are by no means so well known as a description of Spanish life in the seventeenth century as his "Don Quixote" or Lesage's "Gil Blas." In view of "Xrayser II.'s" paragraph (*C. & D.*, May 21, p. 47), the following illuminating extract may be of interest to those who relish the literary "tang" of his "Observations and Reflections." But first a few words of explanation is desirable. The edition of Cervantes' works I quote from is that translated by Maccoll, edited by Fitzmaurice-Kelly, and published by Gowans Gray, Glasgow. The particular novel is entitled "The Centiarte of Glass." Written probably about 1610, Cervantes, as in "Don Quixote," uses a case of hallucination for his purpose. He tells the story of a poor lad, Tomas, who, after sundry adventures, graduates as a Licentiate in Laws in Salamanca. There he attracts the attention of a fair senorita. Tomas proves obdurate, and she ministers a philtre in a quince, with dire results. A month elapse before Tomas is restored to bodily health, but he is left with the delusion that he is made of glass and acts accordingly—dreading every chance of shock and sleeping packed in straw. Under the name of drieria he, with the privileges of his kind, comes to be looked on as a sort of oracle by the inhabitants, and he walks about the streets he tells them a good few plain truths," lashing out with biting tongue at every trade and profession. So now for the pharmacist and physician:

While he (Vidriera) was saying this he was at the door of an apothecary's, and, turning to him, he remarked, "Your shop has a salutary business, and it would be still better were he not such an enemy of his lamps." "How am I an enemy of my lamps?" inquired the apothecary. And drieria made answer, "I say this because when oil of any kind is lacking you supply it from the lamp nearest at hand, and even another fault has this trade, enough to destroy the credit of the most accomplished physician in the world." On being asked what, he replied that there were apothecaries who from not having the courage nor the nerve to say that anything was wanting in their shops which the doctors prescribed, for the things that they lacked substituted others which in their opinion possessed the same virtue and quality, although this was not so, and owing to this the medicine ill compounded had the contrary effect of that which, if well made up, it would be likely to exercise.

Then he was asked what he thought of physicians, and he gave the following answer: "Honour a physician with the honour due to him for the uses ye may have of him. For the Lord hath created him. For of the Most High cometh healing, and he shall receive honour of the King. The will of the physician shall lift up his head; and in the sight of great men he shall be in admiration. The Lord hath created medicines out of the earth; and he that is so will not abhor them."

"Thus," added he, "Ecclesiasticus speaks of medicine as of good physicians, and of bad ones exactly the reverse should be affirmed, for there is no race of men more harmful to the commonwealth than they. The judge can pervert the law of justice for us; the lawyer maintain for his own interest our unjust demand; the merchant drain away our property; finally, all persons with whom of necessity we have dealings can do us some harm, but to take away our lives without being liable to the fear of punishment is possible for none. Only the physicians can kill us, and kill us without fear and without interference, without unsheathing any sword but a prescription; and there is no discovering their misdeeds, for they are at once buried beneath the earth. I mind me that when I was a man of flesh, and of glass as I am now, a sick man dismissed a physician of the second class in order to be cured by another; and the former four days afterwards took care to pass by the shop where the latter had his prescriptions dispensed, and asked the apothecary how the sick man whom he had left to go on, and if the other doctor had prescribed anything for him. The apothecary replied that he had by him a prescription for a purge that the sick man had to take the morrow. He asked the apothecary to show it to him, and seeing that at the end of it was written 'Sumat diluculo,' he said, all that this purge contains satisfies me, except it is this 'diluculo,' for it is extremely humid."

Yours faithfully,

WM. A. MUNRO.

Handsworth.

## Surgery Hours.

SIR,—At the monthly meetings of the London and West Ham Insurance Committees respectively the question was raised as to surgery hours, in the one case with regard to advancing the time, and, in the other, on the closing hour. May I give the hint to the Committees that the hours are all right, but the attendance is all wrong? I should think that every pharmacist on the panel has to listen nightly to the grumble of patients who "got there at 6 o'clock, but the doctor did not turn up till 7.30." Either the panel practice is worth doing or it is not. Looking at the number of practitioners who have come out with new cars, new surgeries, and even new houses, I should say it was well worth it; but for those whose private practice is so extensive that they cannot keep to their advertised hours for panel patients, if I were the Insurance Committee I should ask them to leave the panel work to others with more spare time to attend to it.

Yours faithfully,

EARLJOUR (19/9).

## Legal Queries.

*Fin. Med.* (18/5).—OBTAINING A WINE-LICENCE.—See *C. & D.*, January 1, p. 87, and March 26, p. 96.

*S. C. C.* (17/5).—The wording you propose for the labels for foot salve does not involve liability to medicine-stamp duty.

*A. B. C.* (14/5).—The show-card you send does not render the pills to which it refers liable to medicine-stamp duty, as no ailment is mentioned.

*W. W.* (16/5) owns and occupies a house in a rural district, which is assessed at more than 8/., and asks whether it is possible for him to compound for the rates payable in respect of the property. [The case is not one in which compounding is possible.]

*G. R. L.* (20/5).—The amount of boric acid that may be used as a preservative of cream must not exceed 0.4 per cent., this amount being that mentioned in the Public Health (Milk and Cream) Regulations, 1912, Amendment Order, 1917. The vendor is required to print in black type on white labels the statement, "Preserved cream, containing boric acid not exceeding 0.4 per cent.," the labels to be of a size not less than  $\frac{3}{4}$  in. by  $1\frac{1}{2}$  in. for vessels holding a quantity not exceeding 1 pint.

*R. B.* (20/5).—MEDICINE STAMP ACTS.—The answer to both your questions is in the affirmative, but we would remind you that the chief factors (not mentioned by you) are the mention of ailments and the claims to proprietary rights. For example, the phenolphthalein tablets would not come within the pure-drug exemption as other ingredients are present, but, as a chemist, you could word the label so that the preparation became a "known, admitted, and approved" remedy. Similarly in regard to ung. hamamel. B.P.; proprietary rights may be claimed if a trade-mark name is appropriated to that one article.

*G. P.* (20/5) sent a coat of fawn and navy blue to a local tailor to be dyed navy blue. The tailor passed on the coat to a firm of dyers, and when the coat was returned it was of two shades, which made such a marked contrast that it was not fit to wear. Has "G. P." any claim against either the tailor or the dyers, or against both? [We do not consider that "G. P." could support a claim for damages unless he can prove that the dyeing was done in a negligent manner, or can satisfy the Court that he should have been warned that the result of the process would not be satisfactory. As a rule, dyeing is undertaken subject to an express condition that the dyers accept no responsibility for the success of the work; but "G. P." does not state that any such condition was made in the present case. Whether proceedings should be taken against the tailor or the dyers, or both, depends upon the circumstances in which the garment was accepted by the tailor; but it is probable that both should be made defendants if "G. P." considers it worth his while to bring an action.]

### Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

**W. B. (7/5).**—COMPOSITION ESSENCE.—The following is the formula for which you inquire :

Composition powder ...	3xvj.
Proof spirit ...	3xx.
Glycerin ...	3v.
Water ...	3x.

Macerate for four days and press out the liquor. Mix the marc with a pint of water, and again press. Mix the liquors, and reserve. Boil the marc in half a gallon of water, containing potass. carb. 5ij., for ten minutes, and strain 2 pints; when cold add this decoction to the reserve with 3 oz. of rectified spirit and water to 80 oz. Filter.

**P. C. (13/5).**—ARTIFICIAL HORN.—An outline of the method of manufacture of artificial horn from casein was given in the *C. & D.*, 1919, pp. 1424 and 1520.

**J. W. (17/5).**—CHILDREN'S COUGH-MIXTURE.—The formula for which you ask is as follows :

Ammon. carb. ...	9ij.
Vin. ipecac. ...	3iss.
Sp. chlorof. ...	3j.
Syr. tolu. ...	3iv.
Tr. cocci ...	3ij.
Tr. scillae ...	3j.
Aq. dest. ad ...	3xxxvj.

Dose : 5j.-5iv.

**M. J. H. (23/5).**—MIST. FERRI AROMAT., B.P. 1885.—The following is the formula for which you ask :

Red cinchona bark, in powder	1 oz.
Calumba root, in coarse powder	1/2 oz.
Cloves, bruised	1/4 oz.
Fine iron wire	1/2 oz.
Compound tincture of cardamoms	3 oz.
Tincture of orange peel	1/2 oz.
Peppermint water, a sufficiency.	

Macerate the first four ingredients with 12 oz. of peppermint water in a closed vessel for three days, agitating occasionally; then filter, and add peppermint water to 12 1/2 oz. and finally add the tinctures.

**F. E. H. (19/5).**—Edinol as a photographic developer seems to have dropped out of use; probably because its properties do not give it any advantages over other developers. Particulars of the patent, which expired in 1914, are given in *The Chemist and Druggist Diary*, 1917, p. 221.

**Duplex (20/5).**—Phosphoric acid is not used in medicine as a preservative, but as a tonic and refrigerant. Large quantities are employed as the acidulating ingredient in aerated beverages.

**F. B. (20/5).**—The number of chemists' shops in Great Britain is usually placed at 9,000, or between 9,000 and 10,000, while the number of proprietors is estimated at about 7,000. The last-mentioned figure is arrived at by deducting multiple-company shops and making allowance for the fact that many chemists own more than one shop. We do not know the number of unqualified-owned drug-stores, and we do not think it would be easy to arrive at a definite figure, owing to the absence of any standard.

**Anxious (11/5).**—THE MORTAR of which you send a sketch is a very ordinary specimen. Its value in an antique shop would be from 30s. to 40s., less in a London auction room. Mortars that sell for 5l. to 50l. have characteristics such as names, mottoes, dates, or elaborate ornamentation. The pestle does not add more than a few shillings to the value.

**S. & H. (19/5).**—Irish moss is a cheap emulsifying agent, but there are complaints about its keeping qualities; it also separates on standing. The sp. chlorof. in your formula will, however, act as an efficient preservative but is present in rather a large dose. Most of the successful commercial emulsions contain both acacia and tragacanth as the emulsifier.

**T. H. A. (21/5).**—GOUT AND RHEUMATIC MIXTURE.—The formula for which you ask is as follows :

Sodii salicyl. ...	5j.
Sp. amm. arom. ...	5ij.
Tr. cimicifugæ ...	5ij.
Inf. gent. co. ...	3ij.
Aq. chlorof. ad ...	3vj.

Dose : 3ss.

**S. C. W. (21/5).**—MAG. SULPH. EXSICC.—The percentage of water that should be retained in magnesii sulphas exsiccatus cannot be stated definitely in the absence of a standard. Umney and Bennett (*C. & D.*, July 25, 1914, p. 165) considered that the salt containing three molecules of water equal to 31 per cent. of H<sub>2</sub>O was a reasonable standard. The B.P. orders for the preparation of mag. sulph. effervesc. a dried salt that has lost 23 per cent. of its weight, and such an article might also be called "exsiccated." It seems clear that the term does not, in pharmacy, mean the anhydrous salt (although this is really "exsiccated"), because of the insolubility of the anhydrous salt.

**G. J. C. (85/30).**—WEEDS ON GARDEN-PATH.—Probably the most deadly weed-killer for garden-paths, after arsenic, is crude carbolic acid. The Woburn experimental station reported some years ago that a 5 per cent solution killed "everything green."

**A. J. E. (British East Africa) (23/5).**—CONFECTIONER VARNISH.—The varnish employed for coating chocolate etc., which are exposed to trying conditions of temperature is made as follows :

A.		B.	
Benzoin	25.6 parts	Tolu balsam	5 parts
Resin	6.4 parts	Shellac	1 part
Spirit	100 parts	Spirit	20 parts

**J. L. & Co. (23/5).**—BLUE-BLACK INK.—Most satisfaction is given in preparing this variety of ink by adding phenol-blue or methyl-blue to a thin gall-ink. The gall ink is best made by exhausting Chinese galls 3viiss. (after fermenting the powder for a few days) with water to produce two pints of decoction and adding solution of ferric chloride (10 per cent.) 3iiiss., and allowing to stand a fortnight before adding phenol blue 5j., carbolic acid 9j., distilled water 3xvj.

## Retrospect of Fifty Years Ago

Reprinted from "The Chemist and Druggist," May 15, 1871

### Book of Prescriptions.

At a meeting of the Liverpool Chemists' Association March 16, Mr. John Abraham, the President, handed to the Honorary Secretary a Book of MS. Prescriptions, collected and arranged by Joseph Ince, Esq., F.L.S., etc., of London, and presented by him to the Library of the Liverpool Chemists' Association. He said the Association would be much indebted to Mr. Ince for his valuable present, which he trusted students in pharmacy would take advantage of. He also suggested that it would be of service to employ test assistants before engaging them. The Council was desirous that the members should have opportunity to avail themselves of the benefit to be derived from the collection, and in order to accomplish this they had adopted a resolution, which he called upon the Secretary to read: "That application for the book be made to the Librarian in writing, that no Member or Associate be allowed to keep it longer than three days without being liable to a fine of twopence per day. The written application to be given up when the book is returned."

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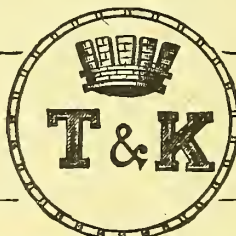
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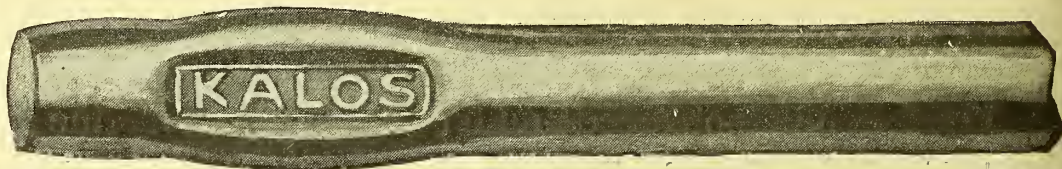
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Minimum quantity £5 value. Packages FREE. Carriage PAID. CASH WITH ORDER.

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## P.A.T.A. NOTICE.

18 Tavistock Square, W.C.1.

May 21, 1921.

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Manufacturers ...	£6 : 6 : 0
Wholesalers ...	10 : 10 : 0
Retailers ...	0 : 7 : 6

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Discount. — Orders of £1,  
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TRADE TERMS:

MINIMUM RETAIL PRICE	1/3	3/-
PRICE ... .. per doz.	12/-	30/-

Bonus of 10/- on £5 worth for 14 days' Window Display  
Terms: Cash in one month. Orders carriage paid. Minimum Retail Price: Loose powders 2½d. each, yielding a profit of 99%.

CEPHOS LTD., BLACKBURN, Lancs.

**SWAMP ROOT****CHANGE OF PRICES. BETTER TERMS TO TRADE!!**

(The 2/6 size will, in future, sell at 3/- per bottle to the public).

**WHOLESALE PRICE: 28/9 per dozen.****PROFIT: 7/3 per dozen.**

New Price Slips of 3/- for Bottles and Cartons will be sent upon request, to paste over old price of 2/6. Goods now going out bear the new price.

Press Advertising will in future be concentrated on the 3/- and 5/- bottles, and our 1/3 bottle referred to as "Trial" size only. It is to Chemists' advantage to push the 3/- size SWAMP ROOT as it shows them 25% profit.

Wholesalers now have ample stocks.

**CHANGE IN PRICE** to take effect as from  
**1st JUNE, 1921.**

For minimum Wholesale order of 4 dozen—Price 25/9 per doz. Carriage paid. Cases free. CASH with ORDER

**KILMER & COMPANY, Marylebone Road, LONDON, N.W. 1**

Phone: Paddington 3789.

Telegrams: "Kilswaroot London."

**The House for French Pharmaceutical Preparations**Telegrams—**THE ANGLO-FRENCH DRUG CO., Ltd.**Telephone—  
Museum 4029."Ampsalvas London."  
**238a Gray's Inn Road, LONDON, W.C. 1.**

Branches—PARIS, BRUSSELS, NEW YORK, MONTREAL, CAPE TOWN, SYDNEY, BOMBAY, CALCUTTA.

**Petroleum Jelly**White, Cream White, and Amber B.P.  
Petroleum Jellies: also Technical Jellies.  
White, Cream White, Amber, Red, etc.In original barrels, 1-lb., 5-lb., and 10-lb. tins,  
and 1-oz., 2-oz., and 4-oz. jars and tins.**HERTZ & CO., 9 Mincing Lane, E.C. 3**

Established 1878.

Phone:  
10607 Central.Telegrams:  
"Freshness London." [6]**We urge every Chemist to  
buy a £2.0.0 quantity of****Antiphlogistine**  
(P.A.T.A.)**and save 5%****DO IT TO-DAY.****WRITE FOR BEST TERMS, CARRIAGE PAID.****Sole Agent—****J. F. MURPHY, 41 St. Ann's Rd., London, E. 3.**

# Finest BLACKS and COLOURS

(ALL SHADES)

*Soluble in Water, Spirit, Oil,  
Turps, Benzoline, Glycerine,  
Wax, Naphtha, Petroleum,  
Creosote, in fact — anything.*

**BLACK  
FOR INK.**

**MARKING INK.**

**ETERNITE**

Combined Preservative  
and Stain for Wood.

**HOUSEHOLD DYES.**

**CARAMEL  
COLOUR**

**in Powder.**

**Guaranteed  
Harmless.**

50 times the concentration  
of Liquid Caramel.

**RHEUMSOL BATH SALTS in 1/- tins**

**WILLIAMS BROS. & Co.**

*HOUNSLOW, MIDDLESEX.*

# Petroleum Jelly

White, Yellow, Amber,  
& Ruby Red, for all  
Pharmaceutical and  
Veterinary purposes

MEADE-KING, ROBINSON & CO., LTD.  
LIVERPOOL - MANCHESTER - LEEDS.

## PETROLEUM JELLY.

Gough, Kidston & Co.

*Chemical Manufacturers,  
Tanning & Dyewood Materials & Extracts,  
Gum & Wax Merchants,*

Tel. No. :  
Avenue 8057.  
(2 lines).

Tel. Add. :  
"Kidstonism,  
Bilgate, London."

43/45 Gt. Tower Street, London, E.C.3.

WORKS :

BERMONDSEY.

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Established over a Century.

## SAMUEL THORNLEY, LTD.

WHOLESALE DRUGGISTS AND DRYSALTERS, OIL  
IMPORTERS, GREASE AND VARNISH MANUFACTURERS.

Members of the Methylating Company, Limited.

Telephone :  
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Head Office :

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Works - - - Slaney Street, Wharf Street.

Branches :  
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GOOCH STREET.  
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**SALVO PETROLIA**

The Perfection of Petroleum Jelly

MANUFACTURED SOLELY BY

**THE DEE OIL COMPANY, Ltd.**  
**DELTA WORKS, BOOTLE, LIVERPOOL.**Packed in barrels, kegs and smaller  
packages according to requirements.

Other Grades

**PETROLEUM JELLIES, WHITE BASES, ETC.**

Samples and prices on application.

**"OLEUM DEELINE,"** a certain cure for Eczema.

Phone: 186 Bootle.

Wires: "Cestrian Liverpool."

**GRASP THIS!!!****HOUSEHOLD PAINTS**(Side lines which are profitable to Chemists) and make  
a satisfied Customer every time.In 1, 2, 7, 14-lb. Lever Tins, attractively packed with your  
name and address on.**"Quality Paints,"** something rather different than "others."

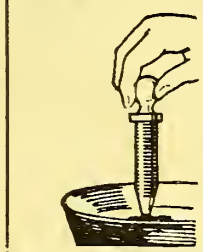
Reliable Oak Varnishes, packed in Pint Tins.

**L.H.C. WATER PAINTS** (Lines worth Pushing.)

Write to-day for Tint Cards and Particulars—

**L. HALL & CO.**Paint and Varnish Mfrs., **DARWEN.****STERN'S****PETROLEUM  
JELLIES****PARAFFIN WAX  
WHITE OILS  
PARAFFIN  
LIQUID****STERN'S Ltd.**80 Royal London  
House, Finsbury  
Square, E.C.**FOR THESE**

PATENT.

**Revolutionising  
Dye Day.**The sticky, messy, stained fingers of Dye-day can  
only be avoided by using "Ralty" Glass Tube Dyes.  
The rubber bulb and the glass tube are the house-  
wife's protection against stains and waste.Slight pressure on the rubber bulb releases the dye  
in solution and a deeper shade is obtained the same  
way.Housewives are asking for "Ralty" Glass Tube  
Dyes. Supply them and get good profit. Ralty  
Dyes are sold at 6d. each, and are supported by  
showcards, throwaways, fancy boxes and strong  
advertising.

Write for samples and generous terms to—

**ECROYD & COMPANY**

Ralty Works, FARNWORTH, Bolton.

**It is Easy to Sell  
when it's Advertised Well.**

- ☞ The new advertising campaign of Fairy Dyes is commencing now in every leading Lady's Weekly and Monthly throughout Great Britain. Get ready now for the Spring-cleaning time demand.
- ☞ This intensive campaign is being handled by a leading Agency, and will appeal to the public as never before. It will convince them by forceful "copy" and appropriate sketches of the folly of merely asking for a home dye and not for the home dye—

**FAIRY DYES**

- ☞ Quick turnover, increasing sales, repeat orders, for a dye that is simple to use and certain of splendid results, a choice of twenty-two different shades, all alike suitable for cottons, linens, woollens or silks. These are some of the Fairy features.
- ☞ Underline "Fairy Dye" in your mind. Put it to yourself this way. "Am I ready with plenty of stocks to meet the demand which is almost upon me now? Fairy Dyes are already in demand, and are sold to the public at 2d. per packet. Can I supply them?"

**"FAIRY DYES, Ltd."**

Registered Office:

**20 Renfrew St., GLASGOW.**

Telegrams - - - - "FAIRYLAND GLASGOW."

# Maltine

REGD. TRADE MARK

with **PEPSIN** and  
**PANCREATIN**

A Powerful Digestive in the treatment of Stomach and  
Intestinal Indigestion.

Price per bottle, **3/-** and **5/6** less 25%

THE MALTINE MANUFACTURING CO., Ltd., ACTON VALE, LONDON, W.



## Brand's Essence

of BEEF, MUTTON or CHICKEN  
**ESSENTIAL IN THE SICK ROOM**

*Sold by all Chemists and Stores.*

**BRAND & Co., Ltd.**

Mayfair Works, Vauxhall, London, S.W.8.

MAKERS of the ORIGINAL A1 THICK SAUCE.

## VITMAR

*The new vitalising food  
proved to contain the  
three principal vitamins*

YOUR WHOLESALEERS CAN SUPPLY YOU

*Manufacturers:* **CALLARD & CO.,** 74 Regent St., LONDON, W. 1.  
*Food Specialists,*

ESTABLISHED 1839.

## CHEMISTS' OVERALLS

From **GARDINER & CO.**

We supply protective overalls in any colour or style required. They are made by experienced hands for all branches of the Chemical trade.

KHAKI DRILL	-	12/6, 16/11, 21/6, 24/6
WHITE DRILL	-	14/6, 17/6
BLACK DRILL	-	18/6
HOLLAND DRILL	-	19/6

Sizes 34, 36, 38, 40, 42 and 44 inches over waistcoat.  
SPECIAL QUOTATIONS FOR QUANTITIES.

**GARDINER & CO. (THE SCOTCH HOUSE) LTD.**  
1 Commercial Road, E. 1.

Teleg.: "Durastyle, Phone, London." Phone: Av. 6650 (4 lines).

# YOUR OWN PROPRIETARY LINE! READY TO SELL!!



**T**HIS attractive two-colour label, with own name imprinted and showcards to match, is reserved to one Chemist only in each locality.

The design is also available for Exporters covering territory not already reserved.

We pack in cartons, composite containers and tin canisters (plain or with own labels affixed free), and in BULK for own packing.

QUOTATIONS FOR TINS OR TONS UPON APPLICATION.

**GEORGE KING & COMPANY,**

ALBION FOOD MILLS

1 and 2 SYCAMORE ST., LONDON, E.C.1.



**Sells readily ALL the time.**

COLEMAN & CO., Wincarnis Works, NORWICH.

**IMPORTANT NOTE  
TO CHEMISTS  
WITHOUT LICENCES**

It has been established by law that Registered Chemists may sell "Wincarnis with Quinine" without a licence.

# PURE ORANGE WINE

## A. MILLAR & CO., LTD., DUBLIN

(VINUM AURANTII B.P.)

Prepared in strict accordance with the Formula of the British Pharmacopœia.

(Wholesale only.)

Samples from Head Office, Thomas Street, DUBLIN, or London Office, 43 Great Tower Street, LONDON, E.C.3.

**ALL CHEMISTS  
SHOULD STOCK**

**ABDINE**

THE GOLD MEDAL FRUIT DRINK.

Quick Seller. Big Profits. Over 40 years' Reputation.

"Abdine" is the most popular Health Drink, superior to all Mineral Waters. The Original and only genuine Fruit Drink.

Reduced Price List can be had on application.

DUNCAN McGLASHAN, LTD., ABDINE WORKS, WESTFIELD ROAD, EDINBURGH.

**John E. Raworth & Moss**

Chartered Patent Agents.

Patents, Designs and Trade Marks.

75 Victoria Street,  
London, S.W. 1.

## SUGAR CHEAPER

THIS MEANS THAT

**Mason's  
Extract of Herbs**

Will be in big demand this season

and chemists are requested  
to replenish their stocks.

Send for Price List to

**Newball & Mason**  
NOTTINGHAM.

**"POSTLIP"**

(No. 633 Mill)

**ENGLISH FILTER PAPERS**

Manufactured in  
Annually Increasing Quantities  
for upwards of 50 years.

White and  
Grey Plain.  
Antique,  
Crinkled,  
and  
Embossed.



All sizes in  
Squares,  
Circles, and  
Folded  
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Rolls made  
to order.

Several new Grades are now  
successfully replacing the  
best German makes.

See Report of TESTS made by the  
National Physical Laboratory, a copy  
of which will be sent on application.

Ask your Laboratory Furnisher for samples of  
"Postlip" Filter Papers.

**EVANS, ADLARD & CO., LTD.**

POSTLIP MILLS,

WINCHCOMBE, R.S.O., GLOS., ENGLAND.

*You can meet any competition  
with our new*  
**HEALTH  
SALTS**



A fine white mobile Powder, dissolving  
with sustained effervescence.

Packed in Handsome Decorated Tins,  
rendered air-tight by our special  
process.

Contents guaranteed 4 oz. net weight.

*May we send you Sample Tin and quotation?*

**LORIMER-MARSHALL LTD.**  
12, TOWER HILL, LONDON, E.C.3

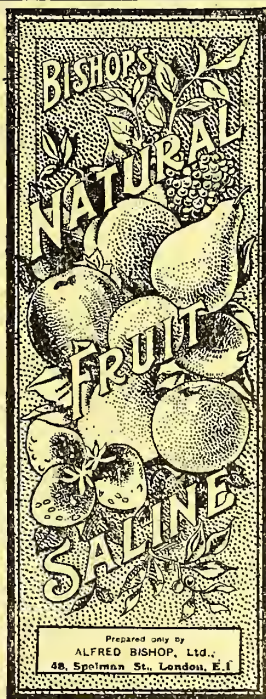
## BISHOP'S NATURAL FRUIT SALINE

### What it is.

#### **BISHOP'S Natural Fruit Saline**

is free from sugar or  
saccharine, yet makes a  
delightfully palatable  
beverage. Clears the  
liver and kidneys, and  
acts as a mild aperient.  
It is manufactured in  
small granules and keeps  
well in any climate.

*It pays to push  
**BISHOP'S !***



### What it costs.

#### **BISHOP'S Natural Fruit Saline**

retails at 2/3 per bottle  
P.A.T.A.

Wholesale price, 20/-  
per dozen.

5 dozen - - £5 0 0

10 % discount 10 0

Net £4 10 0

Carriage Paid.

Thus showing a profit of  
9d. per bottle.

*Attractive show material and  
price cards sent with each order.*

PREPARED  
ONLY BY

**ALFRED BISHOP, LIMITED, 48 Spelman St., LONDON, E. 1**

# All over the World



Ask your  
Wholesaler for  
full particulars  
and prices.



KUTNOW'S POWDER is in constant demand, and Chemists who stock it realise a handsome return for little effort. The reasons for this lie in the constant recommendation it receives from regular users, and extensive publicity in the press. Ask your wholesaler to quote you with reference to this profitable line. If you don't stock KUTNOW'S your customers will buy it somewhere else.



S. KUTNOW & CO., LTD., 41 Farringdon Road, E.C.1.



## Saint-Raphael

Tonic, Restorative,  
Digestive Wine.

Known throughout the World,  
and prescribed in all cases of  
**ANÆMIA, DEBILITY, and CON-  
VALESCENCE, to Young Women,  
Children and the Aged.**

DOSE: One wine-glass after the  
two principal meals.

Recommended by—  
PROF. BOUCHARDAT, Professor of Hy-  
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DR. MACNAUGHTON JONES, London,  
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"For more than thirty years St. Raphaël Wine has been exclusively prescribed, with success, in the Paris hospitals as a pure tonic, by eminent physicians, such as Magendie, Roston Chomel, Velpeau, Requin, Monneret, Trousseau, Grisolle, Laënnec, &c."—*Union Médicale*, May 8 and June 12, 1873.

"The 'Vin de St. Raphael' is often used for ladies nursing their own children; it is preferable to stout, which creates an unhealthy fat."—*The Lancet*, London, England.

"St. Raphaël Wine is most precious in all cases where it is necessary to give tone to the system, without effort or shock."—DR. C. DES BARRES.

Cie du VIN SAINT RAPHAEL, Valence, Drome,  
FRANCE.

To be obtained from all  
Wholesale Druggists.

DR. HALE'S  
**VIN-SANGUIS**  
WINE FOR THE BLOOD

## Fountain of Health

If you have a  
Wine License we  
will pay the fee.

If not, get one,  
we will pay  
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Send for any

You agree to display  
"Vin Sanguis" always.

You give us an  
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You always keep stock  
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DR. HALE'S VIN-SANGUIS

**Transcontinental Agencies Ltd.**  
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# WE SPECIALISE IN FLAVOURING ESSENCES

*of*

FULL FLAVOUR

FRAGRANT AROMA

SOLUBILITY

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## PACKED CULINARY ESSENCES

(Almonds, Lemon, Vanilla, Liquid Cochineal, Etc.),

in  $\frac{1}{2}$ -oz., 1-oz., 2-oz., 4-oz., 6-oz., 8-oz. & 1-lb. Bottles.

Special Quotations for Gross Lots and upwards.

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*Essence Distillers,***HULL AND LONDON.**

Codes:

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BENTLEY'S.

HEAD OFFICE AND LABORATORIES—HULL, ENGLAND.

LONDON DEPOT—3 BROWNING STREET, WALWORTH RD., S.E.17.

**CORN VELVET** (very good seller),  
3/- doz.

**CLOTH BALLS** 2/6 doz. (12 doz. 24/-)

**LOOFAHS** 2/-, 2/6, 5/- doz.

**BORACIC SOCKS** 3/6 doz. pairs.

**ABS. WOOL** (white interleaved),  
1 cwt. lot 1/3 lb.

**BORIC LINT** 2/4 lb.; 7lb. at 2/3

**WHITE LINT** 3/3 lb.; 7 lb. at 3/-

**QUIN. PESSARIES** 12/- doz.

**HYG. TEATS** 16/6 for 1 grs. lot.

**Do. VALVES** 12/- grs. (5 grs. lot 10/6)

**MENTHOL CONES** 4/6 doz. (TALL)  
Ditto 6/- and 8/- (FLAT)  
And all Sundries at Right Prices.

**THOMAS SWALES***Druggists' Sundriesman,*

24 Butts Court, and 89 Albion St., LEEDS.

Telephone : 22260 Leeds.

**SAYERS, SILCOX, CUZNER & Co. Ltd.**  
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**TRUSS**

MAKERS

ARE ALSO MAKERS OF

BELTS, CORSETS  
SUSPENSORY BANDAGES  
CHEST EXPANDERS  
CHEST PROTECTORS  
PNEUMONIA JACKETS  
WRIST - STRAPS  
FINGER-STALLS

and all similar articles.

**LOWEST PRICES.**  
**IMMEDIATE DELIVERY.**

**EXCELSIOR CREPE BANDAGES. FAST EDGE.**

Owing to the War, the supply of Crepe Velpau Bandages is discontinued. We, are, therefore, placing on the market a bandage of English manufacture which will be sold as

BANDAGE  
EXCELSIOR  
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TRADE MARK.

**GIMBER'S EXCELSIOR****CREPE BANDAGE**

An Elastic Bandage. Containing no Indiarubber. Superseding Elastic Stockings, Webs, Bandages, and at half the cost. Three sizes, about 2, 2½, and 3½ inches wide. Excelsior Crepe Abdominal Binders.—Useful after many Abdominal Operations, and for ladies after confinements. Two sizes : 8 & 11 in. wide.

**CAUTION.**—Beware of fraudulent and useless imitations, and reject all Bandages not bearing the above Trade Mark on the Wrappers.

**W. GIMBER & SON,** Surgical Bandages and Instrument Makers. 44 Queen's Rd., Peckham, LONDON, S.E. 15. And of all Wholesale Druggists, Chemists, Surgical Instrument Makers, &c. Telephone : New Cross 1601. Descriptive Circular & Price List on application.

**JOHN MILNER & CO.** Orient Works, SHEFFIELD  
Matilda St.,

Invite enquiries from Home  
and Export Buyers of

Photographic  
Print Trimmers,  
Retouching Knives and  
Botanical Knives

("Intrinsic" Brand)

HIGHEST GRADE.



3 1.132.



1.133. 1.117.

The above are 4 examples from our full series, an illustrated list of which will be sent on request.

**ELASTIC GUM SURGICAL INSTRUMENTS.**

Catheters and Bougies, in Black or Brown Gum, and Finest Silk Web. Specula, Rectal and Esophageal Instruments, Horse Catheters and Cattle Probangs. Wholesale and Export only. Price List from the Manufacturers.

**MASON BROS. & CHAPMAN, 107 Whitecross St, LONDON, E.C. 1.****WM. WARNE & CO. LTD.**

29 GRESHAM STREET, E.C. 2.

India Rubber Manufacturers,

Surgical, Chemical, Domestic Articles, Syringes,  
Water Beds, etc.



A SATISFIED CUSTOMER IS THE CHEMIST'S BEST ADVERTISEMENT

# The Marvel Whirling Spray Syringe



Gold Medal Awarded, Paris, 1902,  
by the Société d'Hygiène de France

as the latest and best improvement in Vaginal Syringes. Particular attention is called to the fact that by reason of its peculiar construction the Marvel Syringe dilates and flushes the vagina with a volume of whirling spray, which smooths out the folds and permits the injection to come into contact with and cleansing the entire surface.

• Fully Protected by Patents.



You can safely recommend it.

Has no rival on the market, is well advertised, pays a good profit, quality guaranteed. The MARVEL is returnable for exchange if found defective and reported promptly.

Trade price, 125/- per doz.

Retail price, 15/- each.

**FASSETT & JOHNSON, Ltd.**  
86 Clerkenwell Rd., London, E.C. 1.

## CURASOL

THE ORIGINAL

## Boracic Socks

Fixed Selling Price, 6d. per pair.

Cost, 4/- per dozen.

Six dozen lots, 46/- per gross.

Distributing Agents :

England and Wales—

Sangers, 42a Hampstead Rd., London, N.W.1.

Scotland—

Munro, M'Laren & Sutherland,  
17 Cadogan Street, Glasgow.

For Sample Pair (state size) send Postcard to—

**The Curasol Sock Co.**

19/20 Garlick Hill - LONDON, E.C.4.

## ARTHUR BERTON, Limited

15-17 Worship Street - LONDON, E.C. 2

MANCHESTER and GLASGOW.

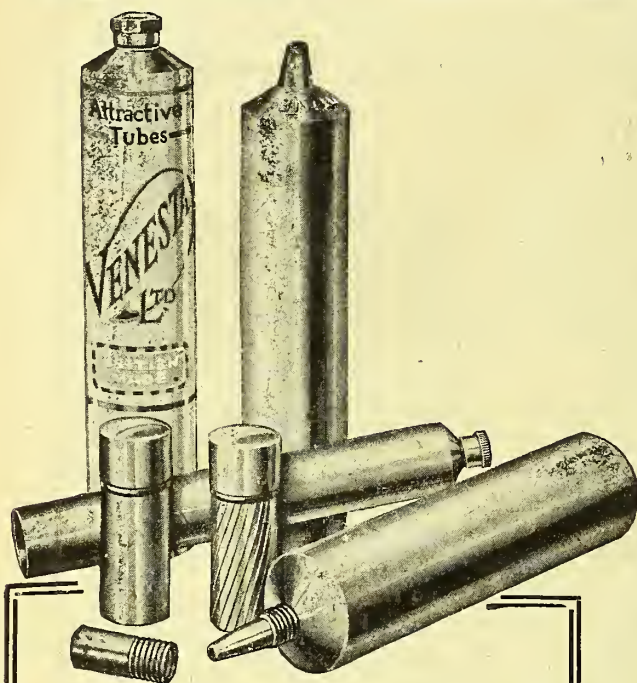
Telegrams : "Aybelim, Finsquare, London."

Phones : Clerkenwell 1347, 1348, 1349 (Private Exchange).

A PROFITABLE LINE.



YOUR INQUIRIES SOLICITED.



## Venesta Tubes

When ordering your next supply of tubes remember that Venesta collapsible tubes possess a quality and finish that make them a real selling force.

They are made from Pure Tin, Lead or Lead-coated with Tin and supplied plain or enamelled and printed with designs to suit customers' own requirements.

We also supply Lip-salve Cases, Sprinklers, etc., and shall be pleased to forward illustrated lists, samples and current prices on application to—

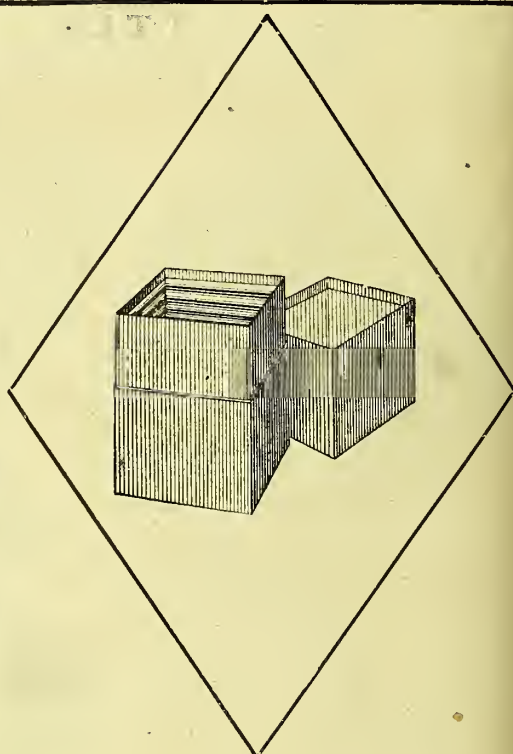
G. Dept.

### VENESTA LTD.

1 Great Tower Street, London, E.C.3.

See our Exhibit at  
THE CHEMISTS' EXHIBITION  
Central Hall, Westminster.  
JUNE 20/24.

STAND No. 131/2 (Conference Hall)



## RIGID SQUARE BOXES

- ☐ WE HAVE SPECIALIZED FOR MANY YEARS IN SMALL RIGID CARDBOARD BOXES AND NOW SUPPLY THEM TO THE MAJORITY OF THE LARGE HOUSES IN THE DRUG TRADE.
- ☐ WE MAKE THEM ANY SIZE OR SHAPE, AND SHALL BE GLAD TO HAVE THE OPPORTUNITY OF QUOTING.
- ☐ WE CAN GUARANTEE PROMPT DELIVERY.

ROBINSON & SONS, Ltd.

BOXMAKERS TO THE CHEMIST TRADE

CHESTERFIELD.



PLEASE SEND YOUR ENQUIRIES FOR  
**GLASS BOTTLES**  
to the Youldon Works, Treby St., E.3., of



# Cellophane

**What  
Is It?**

## CELLOPHANE

is a transparent film of pure Cellulose, **absolutely** air, grease, and odour proof, **unaffected** by cold, heat or moisture, and **sterilisable**.

An **ideal wrapping** for Drugs, Tablets, Bath Crystals, Perfumery, Provisions, Sweets, Surgical Dressings, Articles of Toilet, &c. &c.

Will keep your Goods, Boxes, Bottles, and delicate Labels **clean** on the Counter and in Shop Windows, allowing the Articles to be seen **by transparency**. Can be had colourless, coloured and embossed.

Also in the shape of **Labels** for Bottles, and **Discs** for Creams, Ointments, Boot Polish, &c.

**Cello-Dressings**—The best substitutes for Gutta Percha and Oiled Silk. Ask for explanatory circular.

Prices, Samples and Particulars from

**The CELLOPHANE COMPANY**  
(LECLERCQ & CHARERAT),  
Bolton House, Cullum Street, LONDON, E.C. 3.

## "Corruganza" SEAMLESS PILL BOXES.



THE phenomenal success of the "Corruganza" Seamless Ointment Boxes has induced us to offer a series of Pill Boxes made on the same **One-Piece** principle. Stocked in usual sizes.

They cost a little more than the Ring and Disc style, but **THEY HOLD THE GOODS**, and do not fall to pieces in handling or in the pocket.

## "Corruganza" SEAMLESS OINTMENT BOXES



Have replaced the old willow boxes.

£

The bottoms cannot fall out.

£

Greaseproof.

Manufacturers of all kinds of Cardboard Boxes, Folding Packets, Tubes and Canisters, Fibre-Board Packing Cases, Corrugated Paper, &c.

Wholesale or Export only from

**HUGH STEVENSON & SONS,**  
LIMITED.

Summerstown Works, London, S.W. 17  
And at Manchester, Birmingham, Leith, Perth & Glasgow.

Kindly mention this Journal when replying to the advertisement.

# Labels

FIRST CLASS LABELS, OF MERIT  
AND ORDER UNEXCELLED. . . .  
PRODUCED AT THE PRESS OF

**JAMES F. WILKINSON,**

(Sons: G. F. BERRY and J. G. DRIVER.)

**Pharmacists' Printer.**

**Bury Street, PENDLETON,  
MANCHESTER.**

Phone, Two Lines: City 1102.  
Pendleton 357.

**T**HINK for one moment of the supreme distinction given to your goods by a well defined, correctly balanced Label, printed in delicate tints, or a clear, sharp impression from a careful selection of the most up-to-date types in the Country.

POOR PRINTING  
LOWERS VALUE



GOOD PRINTING  
ENHANCES VALUE

(3)

**FORD,  
SHAPLAND  
& CO. LTD.**

**FINE ART  
PRINTERS**

GT. TURNSTILE  
HIGH HOLBORN W.C.1.

TELEGRAMS: FORSHAPCO.  
WESTCENT, LONDON  
TELEPHONE: CITY 65



## BATTLE'S WEED KILLERS LIQUID & POWDER.

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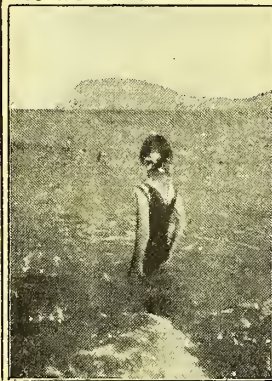
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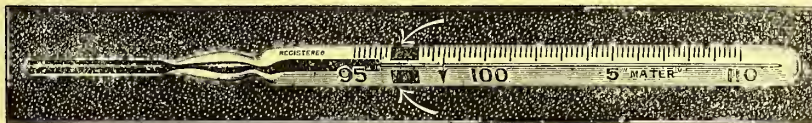
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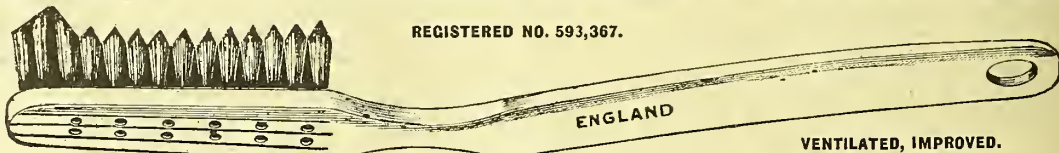
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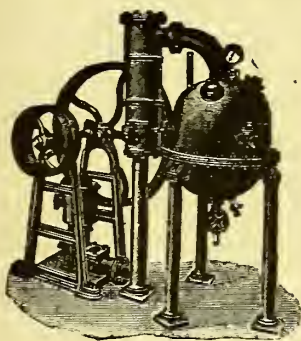
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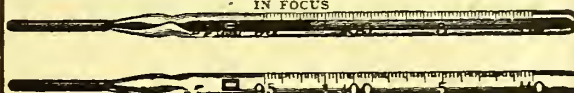
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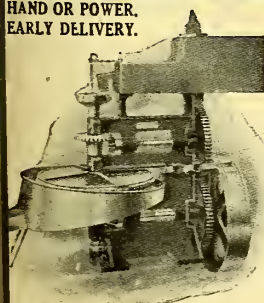
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# WHITAKER & CO'S PAGE



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supplied if desired.

*"I am very pleased with the GLOSSY HAT DYE. It has answered splendidly."*

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Send for Pattern Book of Latest Shades.  
Special **NON-INFLAMMABLE**  
SERIES for Export.

## "AURORAL" DYES

The New Cold Water Tints. NO BOILING.

**Retail at 6d.** Showing at least 50 %  
Profit on Outlay.

*A Chemist ordering a fresh supply writes :—*

*"These Dyes have sold very well, and customers are very satisfied with same."*

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By the same Makers—

**WHITAKER'S VARNISH STAINS.**

**WHITAKER'S UNIVERSAL FABRIC DYES.**

STRIKING AND ATTRACTIVE SHOWMATTER SUPPLIED

Write to-day for Complete Price Lists and Patterns to

**WHITAKER & CO., Colour Works, KENDAL**

Telegrams: "Dullette Kendal."

Telephone: No. 214.

**London Office and Showrooms: Craven House, Kingsway, W.C. 2.**

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Established 1878.

# **YOU CANNOT AFFORD**

TO BE WITHOUT

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## **Price List of Packed Goods**

NOW PRINTING.

IT IS THE MOST UP-TO-DATE  
CATALOGUE OF

**PACKED DRUGS  
HOUSEHOLD REMEDIES  
AND  
TOILET ARTICLES**

It contains all our latest productions and all our *latest reductions*.

If your name is not on our customers' list, hadn't you better drop us a postcard to send you a copy?

---

**MAY, ROBERTS & CO., LTD.**

7-13 CLERKENWELL ROAD, LONDON, E.C. 1.

And at Dublin and Plymouth.

May 28, 1921

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TD.



# THE CHEMIST AND DRUGGIST SUPPLEMENT

42 CANNON ST.  
LONDON E.C. 4

MAY 28, 1921

*This Supplement is inserted in every copy of The Chemist & Druggist.*

## THE CHEMIST AND DRUGGIST SUPPLEMENT REVISED ADVERTISEMENT TARIFF.

**Businesses Wanted and for Disposal, Premises to let, Goods and Shopfittings for Sale, and Agencies:** 6/- for 50 words; every additional 10 words or less, 6d.  
**SITUATIONS OPEN:** 6/- for 40 words; every additional 10 words or less, 6d.  
**SITUATIONS WANTED:** 2/- for 18 words; every additional 10 words or less, 6d.

**Legal Notices, Tenders, Auctions,** and all specially-spaced announcements, 1/3 per nonpareil line (12 lines = 1 inch single column).  
**Miscellaneous (Wholesalers') Section** for odd and second-hand lots: 10/- for 60 words; 1/- for every additional 10 words or less.  
**EXCHANGE COLUMN** (for Retailers etc.): **Two-pence** per word, minimum 2/-

### BOX NUMBER.

In all cases replies may be addressed to a registered number or nom-de-plume, c/o this Office, at a charge of 1/- extra for each advertisement.

### PAYMENT.

All advertisements are prepaid, so that remittance must accompany instructions in each case. If it be necessary to telephone or telegraph urgent announcement this may be done, provided the message is telegraphed at the same time.

**THE CHEMIST AND DRUGGIST, 42 Cannon Street, LONDON, E.C. 4.**

Telephone: Central 3617 (3 lines).

Telegrams: "Chemicus, Cannon, London" (2 words).

**EARLIER CLOSING FOR PRESS.** Will advertisers please note that until further notice it will be necessary that Advertisements intended for the Supplement must reach us not later than the **FIRST POST THURSDAY MORNING.**

## CHEMISTS' TRANSFERS.

**Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.**

Telephone No: City 2283.

May be consulted at their Offices on matters of **SALE, PURCHASE, and VALUATION.**

1. LONDON, W.—Cash Retail Business, with N.H.I. Dispensing receipts last year £3,081, at fair prices; rent £60; 25s. weekly; 20 years' lease; no immediate opposition; price £1,550.
2. MIDDLESEX (about 10 miles out).—Old-established Business; returns last year £3,250; net profit £800; small residential £45; 32 years' lease; practically no opposition; price £1,600.
3. LONDON, W.—Ready-money Retail, capital situate in shopping thoroughfare; returns, present rate, between £30 and £40 per week; gross profit one-third; rent £35; price £1,200.
4. LONDON, S.W.—Good medium-class Retail; no booking; returns about £40 weekly; net profit £500 per annum; single shop; held on lease at a low rental; no near opposition; price 900.
5. LONDON, S.W.—Modern Pharmacy; position unique; between £3,500 and £4,000; net profit about £1,000; lease; valuation terms entertained.
6. LONDON, W.—For immediate disposal, the fixtures and fittings of a Pharmacy, which has recently been refitted, together with register till; the whole can be inspected at any time, and is cleared by the end of June; no reasonable offer refused.
7. SURREY.—Good-class Retail and Dispensing Business, in a favourite residential town, within easy distance of London; returns, under management, about £3,600 per annum, at fair prices; well-appointed shop, fully stocked; the Business cope for extension under personal supervision.
8. SOUTH COAST.—For immediate disposal, a half-share in a good-class Retail and Dispensing Business, with branch; returns £5,500, with excellent opening for considerable extension; price for the half-share, £2,350.
9. LIVERPOOL.—Cash Retail Business; best position in marketing thoroughfare; steadily increasing; returns £2,000; excellent opening to extend business under qualified management; price for business £850, and for property a further £850, if required.
10. MONMOUTHSHIRE. For immediate disposal, a Shop and Residence, which has been held by a Chemist for 25 years, now deceased; further particulars will be furnished on application.
11. NORTH-EAST COAST.—Cash Retail Business; returns £3,000 per annum; gross profit one-third; inclusive rent £120 yearly; owing to the vendor's illness, a prompt sale is necessary; terms, simply the valuation of stock and fixtures.
12. CHESHIRE.—Cash Retail Business; established upwards of 50 years; returns last year between £3,000 and £4,000; gross profit £1,300; well-fitted shop, fully stocked; seven-roomed house; private entrance; rent £40; held on lease; price £2,150.
13. MIDLANDS, Market Town.—For immediate disposal, through a breakdown in health, an old-established Retail Business, together with Gilbey's Agency and Mineral Water Factory; the sum required to purchase is £5,000.
14. NORTH WALES.—Old-established Business, well situate in good market town; returns, present rate, about £2,000 per annum; comfortable residence; nice garden; healthy district; price £1,000 cash.

## VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a periodical Statement of Account, by which means alone Profit-value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties and make **Special Terms** for such services.

**ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.**

# BERDOE & FISH

**VALUERS & TRANSFER AGENTS**

**35 Jewry Street, Fenchurch Street, E.C.3.**

Telephone: 1809 CENTRAL.

1.—WEST END.—High-class retail and dispensing business, including the valuable leasehold premises, for private disposal, situated in one of the finest positions in the West End and offering unlimited scope. Price required about £8,500; a unique opportunity for two smart energetic men; references required.

2.—LONDON, N.—Old-established quick cash retail and dispensing business, increasing. Returns about £2,700; good position; low rent; long valuable lease. Seven-roomed house and large shop, heavily stocked. Price £1,800.

## WANTED TO PURCHASE.

BERDOE & FISH are anxiously seeking, on behalf of applicants, good sound businesses throughout England and Wales, and will be glad to hear from owners wishing to sell, or to advise those contemplating selling.

ESTABLISHED 1870.

## The Association of Manufacturing Chemists

— LIMITED —

**Head Offices — 26/28 Kimberley House,  
Holborn Viaduct, London, E.C.1**  
(and at 2 Bixteth Street, Liverpool).

PHONE: CITY 6942.

**Stocktaking and Valuations for all purposes  
undertaken upon Reasonable Terms.**

1.—NEAR LUDGATE CIRCUS.—Good-class Cash Business; returns £57 per week, at excellent profits; rent £80 per annum; established 30 years, and in present hands 6 years; lock-up shop; good reasons for disposal; price £2,000, or offer.

2.—PADDINGTON.—Good-class Family, Dispensing, and General Retail Business; returns £1,800 per annum, which could be greatly increased; long lease at £65 per annum, which includes excellent living accommodation; large corner shop and spacious cellar; price £1,000.

3.—LONDON, W.C.—Nice Retail Dispensing Business, in main and very busy thoroughfare; handsomely-fitted and well-stocked shop; returns about £1,300 per annum, with scope for increase; price £1,000, or offer.

4.—EARL'S COURT.—Old-established Dispensing and Retail Business; neglected, but with excellent opportunity for energetic Chemist to make good business; nicely-fitted shop in busy thoroughfare; offers invited.

5.—EPSOM DISTRICT.—Good-class Family Retail Dispensing and Photo Business; newly fitted and decorated shop; returns £1,300 per annum, with plenty of scope for increase.

6.—Two small Manufacturing Chemists' Businesses for Sale, situate near London; excellent factory accommodation; held on 20 years' lease at a very low rental. Full particulars on application.

7.—YORK.—Retail, General, and Dispensing Business in populous district, with excellent house accommodation; low rent; returns between £30 and £40 per week, mainly from sale of drugs; price, including property, £2,500, or near offer.

Write **ERNEST J. GEORGE**

IF YOU WANT

**TO**

SELL YOUR BUSINESS  
BUY ANOTHER BUSINESS  
TAKE IN A PARTNER  
FORM A COMPANY  
HAVE YOUR STOCK TAKEN.

**ERNEST J. GEORGE,**

202 Birmingham Road, WALSALL, Staffs.  
26 Langside Road, Newlands, GLASGOW.

**PARSON C. BAKER,** Ph.C., M.P.S.,  
4 Cyprus Rd., N.3. Tel.: 941 Finkle

**WM. ROOKE ROBERTS, M.P.S., F.S.M.C.,**  
174 Victoria Street, S.W. 1. Tel.: Victoria 27.

Valuers for Purchase, Sale, Probate, Income Tax, Balance Sheet, &c.

Recommended by The British Drug Houses, Ltd., Messrs Meggeson, Ltd., Messrs. Barclay & Sons, Ltd., and many other leading Wholesale House Valuers to the Association of Manufacturing Chemists.

## THOS. TOMLINSON & SON

**CHEMISTS' VALUERS, TRANSFER AGENTS,  
AND EXPERT STOCKTAKERS,**

45a MARKET STREET, MANCHESTER.

ESTABLISHED OVER HALF A CENTURY.  
Telegraphic Address: "Tomtom."

## CHARLES C. MARSDEN

Valuer, Transfer Agent & Stocktaker,

44 Sholebroke View, Chapeltown Road, Leeds.

Stocktaking Valuation. Special Terms.

All Valuations have the personal attention of C. C. Marsden.

## SALES BY AUCTION.

1s. 3d. per nonpareil line (12 lines = 1 inch single column).

TO BE SOLD BY AUCTION, by  
**PATERSON & THOMAS,**

On THURSDAY, JUNE 16th next, at 3 p.m., at the LA  
ASSOCIATION ROOMS, 14 COOK STREET, LIVERPOOL,

**FREEHOLD FACTORY PREMISES,**  
situate in

**BINNS ROAD, WAVERTREE,  
LIVERPOOL,**

in occupation of Holt, Thomson & Co., Ltd., comprising Office  
Works, Garage, and Storage Land.

TOTAL SITE AREA, 9,450 SQUARE YARDS.

TOTAL FACTORY FLOOR-SPACE, 2,586 SQ. YDS.

STORAGE LAND, ETC., ETC.

For further particulars apply to Paterson & Thomas, Estate  
Agents, Valuers, and Property Auctioneers, 16 Cook Street, Liver-  
pool; or to Moorcroft, Sproat & Killey, Solicitors, 5 Castle Street,  
Liverpool.

## LEGAL.

1s. 3d. per nonpareil line (12 lines=1 inch single column).

### WILLIAM HANNAFORD, DECEASED.

**P**UANT to Statute 22nd and 23rd Victoria, cap. 35, NOTICE IS HEREBY GIVEN that all persons having any claims, or demands against the estate of William Hannaford of 231 St. Albans Road, Watford, in the County of H., who died on the 18th day of February, 1921, and the estate administration with the will annexed was granted 5th day of May, 1921, by the Principal Probate Registry Majesty's High Court of Justice to Charles Allen Chase, who lawfully appointed by Barclays Bank Limited, the executor, for their use and benefit, are hereby required to send in, in writing, of their claims to the said Barclays Bank Limited, Trustee Dept., 3 Bank Buildings, Lothbury, E.C. 2, on or before the 24th day of June, 1921, after which date the estate of the said Testator will be distributed among the parties thereto, having regard only to the claims of which notice has been received.

this 20th day of May, 1921.  
MATTHEW ARNOLD,  
Solicitor for Barclays Bank Ltd., and the said Syndic.

## AGENCIES.

For 50 words or less; 6d. for every additional 10 words or less, prepaid.

The advertiser may if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

**L**ONDON Merchants require Sole Agencies, to sell through resident agents for Bombay Presidency for Packed Foods, including Laxatives, Nerve Tonics, Body-builders, Cod-liver Oil, etc. Apply P.C.B. 86/16, Office of this Paper.

**A**GENCIES.—Live man in Sydney, N.S.W., with well-established organisation throughout Australia and New Zealand, seeks for Proprietary lines and Specialities. Reply 2 QQ, c/o London's Library, Knightsbridge, S.W. 1.

## BUSINESSES WANTED.

For 50 words or less; 6d. for every additional 10 words or less, prepaid.

The advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

**A**DVERTISER desires to purchase Drug Store or Business suitable for unregistered, with living accommodation; South or North Midlands; cash available. Replies, in strict confidence, 106/39, Office of this Paper.

**C**HIST'S Business required; cash available £500; South Coast preferred. Full particulars to 107/5, Office of this Paper.

**D**ESIRE to purchase, for cash, now or later, in a healthy country town, Midlands, South of England, or on the Coast, a business, with good house, preferably returning £40 weekly; Wholesale or bankers' references exchanged; treated in strict confidence. "M.P.S.," 9 Steep Hill, S.W.

**S**WAL Chemist's Business wanted; Midlands or South of England; price about £600. Apply 80/29, Office of this Paper.

**W**ANTED (immediately), by advertiser (retired Chemist), who disengaged, with cash ready, good-class Chemist's Business turning from £2,000 to £3,000 per annum, in Southern country, coast, or suburban districts; satisfactory reference. Mr. Keeble, Balconies, Liss, Hampshire.

## TO LET.

**S**PACE to Let; 3 floors, 19 x 28 ft., suitable for Manufacturing Chemists; yard and basement; gas, electric light, and cold on; £50 per annum; South Coast of England; near railway quay. Apply 106/28, Office of this Paper.

## FOR SALE.

**C**HIST'S—Chemist's Fixtures; 4 Carboys; 150 stoppered Bottles; Whogany Show Case, 8 x 4, and 4 small ones; Window under Cases; nest of 116 Drawers; Mirrors, and other low price to clear at once. 180 Wandsworth Road, S.W.

## PARTNERSHIPS.

**C**HEMIST, well known in the trade, needs Partner to help financially (small) to develop Wholesale business; good connection; at present losing orders through lack of capital; references exchanged. Write "Oil," c/o Mr. Morris, 4 Richmond Road, Bayswater.

## BUSINESSES FOR DISPOSAL.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

**D**OUGLAS, Isle of Man.—Light Retail and Prescribing Business; well-appointed shop, fully stocked; good house, also cellars for stock; turnover £1,800; good profits; long lease; low rental; approximate value £1,250; immediate possession as a going concern; best offer. Apply 108/16, Office of this Paper.

**L**IVERPOOL.—Old-established Dispensing and Photographic; turnover £2,000; scope for increase; rent £65 clear; long lease; stock at valuation; fixtures and goodwill, £1,000; part (25%) could remain to suitable man; proprietor occupies house, not available at present; please give references. 104/6, Office of this Paper.

**L**ONDON, W.—Suburban Cash Retail; returns £1,560; under neglected management; double-fronted shop; advantageous lease; good house, sub-let; gross profit, 42%; opening for Optics and Dentistry; plenty of scope; price £1,100 cash, or near offer. 106/7, Office of this Paper.

**S**OUTH COAST.—High-class Light Retail; increasing return approaches £5,000; great scope for further increase; heavily stocked, well fitted, double-fronted shop; fine position; 8-roomed house, warehouse; ill-health compels sale; price about £4,000. Apply 45/15B, Office of this Paper.

**S**UFFOLK.—Unopposed Business and Freehold Premises; Cash trade and no heavy commodities; growing district; population at present 5,000; turnover exceeds £2,000 per annum; living accommodation; suitable for young qualified man; preference to ex-Service applicants; price for the whole about £1,800. Further details on application to 108/13, Office of this Paper.

**W**EST RIDING of Yorkshire; centre of a populous and prosperous town.—Old-established Chemist's Business, with Wines and Spirits and Mineral Water Factory; long, favourable lease; returns £10,000 a year; about £5,000 required for nominal goodwill, stock, fixtures, machinery, syphons, bottles, cases, and delivery motor-wagon. Apply 108/39, Office of this Paper.

**B**Y Order of Executors.—S.W. London.—Old-established Chemist's Business and Freehold Premises for Sale; excellent corner position; stock, trade fittings, and goodwill (about £2,000 turnover); price £1,100; freehold shop and house (nine rooms), £1,400. Apply Harold Griffin, 54 High Street, Battersea, S.W. 11.

**F**OR Sale, old-established Dispensing Business; mahogany fittings and modern front; finest position in West London; long lease; vacant possession of 2 floors; turnover £2,000, mostly Dispensing; fine opportunity for Toilet and Photographic; no N.H.I.; price £1,300, spot cash; banker's reference with application required; bona-fide reason for selling. Apply P.C.B. 86/14, Office of this Paper.

**P**ROPRIETOR retiring; rare opportunity to acquire thoroughly sound, old-fashioned Middle-class Business in unopposable position in Surrey riverside suburb; returns over £3,000, at full prices; steadily increasing; highly profitable; proper account books kept, and inspection invited; amount required, £2,200, or near offer; references with inquiry. Apply 107/3, Office of this Paper.

**W**HOLESALE, Manufacturing, and Chemists' Sundries; a highly remunerative small Business; steadily increasing turnover; capable of great extension; almost unaffected by slump; practically no foreign competition; extensive connection Midlands; established thirty years; essentially a going concern; low working costs and rental; price £2,250. Apply 106/32, Office of this Paper. Usual references.

**W**HOLESALE, small; Scotland; specialties sold in almost every town of importance in Britain; sales last year £5,000; good profits; regularly advertised in this Journal; sales mostly by travellers on commission; price £2,800 (this includes stock fittings, plant, trade-marks, and also a new winter line vendor intended placing on market); no dead stock; worth attention of any progressive Pharmacist or Company. Apply 100/2, Office of this Paper.

# SITUATIONS OPEN.

## RETAIL.

6s. for 40 words or less; 6d. for every additional 10 words or less prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

**BIRMINGHAM.**—Wanted, a smart Junior, for clean Light Retail business; usual hours; no Sunday or Bank Holiday duty. Apply, stating salary required; previous experience, and when disengaged, to 106/6, Office of this Paper.

**BIRMINGHAM.**—Unqualified Assistant, good Photographic experience, required immediately; single preferred; state age and salary required. "Photo" (106/330), Office of this Paper.

**BIRMINGHAM.**—Assistant, age not over 30, for quick Cash suburban business; neat and accurate Dispenser; character must bear investigation. State full particulars, references, and salary to "Aspirin," c/o Southall Bros. & Barclay, Lower Priory, Birmingham.

**BIRMINGHAM Suburb.**—Wanted, in 3 weeks' time, a conscientious unqualified Counter Assistant, male or female; write fullest particulars in first instance; must be recommended for quick Mixed Cash business; permanency; outdoors. Howes, 1427 Pershore Road, Stirchley.

**CHELMSFORD.**—Wanted, capable unqualified Assistant (male) for good-class country business; must be smart Counterman, with knowledge of Photography; must be strictly honest; short hours. Apply, stating age, height, and salary expected (photo, if possible), to T. Bellamy, Pharmaceutical Chemist, Chelmsford.

**CHESTER.**—Qualified, energetic, and experienced Assistant, for high-class Retail, Dispensing, and Photographic business; must be a proved Salesman and good Window-dresser, and of good appearance and address. Apply, with usual particulars and photo (if possible), to the Manager, Milling-Johnson, Ltd., Chester.

**COVENTRY.**—Experienced, gentlemanly Assistant, accustomed to best-class business; must be good Dispenser and possess knowledge of Photography. Apply, stating usual particulars, with addresses for references (no copies), and salary required, Chas. H. Welton, 60 Smithford Street.

**GUERNSEY, Channel Islands.**—Reliable unqualified Assistant, for three months; general Counter work, Sales, and dispensing; reasonable hours; half-holiday weekly; no Sunday work; state terms and when available. C. Stonelake, Chemist, Smith Street, Guernsey.

**HAMPSTEAD, N.W.**—Relief Assistant required for Tuesday, May 31st, and each Tuesday in the three succeeding weeks; accustomed to good-class Dispensing and Retail. Particulars, "Relief" (107/1), Office of this Paper.

**LANCASHIRE.**—Qualified Manager for business in suburbs of a good manufacturing town; progressive berth; excellent opening; salary, with interest in the profits, offered. "Lancashire" (106/332), Office of this Paper.

**LONDON, N.**—Outdoor reliable Assistant; smart appearance; not over 35; used to up-to-date, quick trade; good Counterman, reliable Dispenser and Stockkeeper; business grit and abilities before qualification; recent good references; letters unanswered 4 days declined. Particulars, experience, salary, etc., to P.C.B. 86/15, Office of this Paper.

**LONDON, W.**—Assistant (male) for Dispensing and Counter; must be a good Salesman and accurate Dispenser; outdoors; moderate hours. Apply, giving full particulars, to 107/26, Office of this Paper.

**MIDDLESEX, near Town.**—Reliable and thoroughly competent Senior Assistant wanted; good-class Dispensing and Family trade; first-class references essential; unqualified; short hours. Apply, with photo and full particulars, to 108/35, Office of this Paper.

**MID-KENT.**—Young qualified Assistant, with good references, for end of June for Light Retail; one seeking permanency preferred. Apply "A.B.C." (107/32), Office of this Paper.

## RETURNING PHOTOS, &c.

Advertisers in this section who receive portraits and copies of testimonials from applicants with a stamped addressed envelope for reply are reminded that the undue retention of these often means a hardship to the sender. All personal documents should be returned as promptly as possible after perusal.

**MIDLAND Health Resort.**—Qualified Manager; Optical experience; good-class business; good salary and interest in profits. "Optics" (106/33), Office of this Paper.

**NEAR LONDON.**—Pharmacist, to assist; suit elderly gentleman, or as light duty; four guineas a week; live out; easy hours; no late duty; good Prescriber and refined appearance comfortable berth to right man. Full particulars to 108/2 Office of this Paper.

**S.W.**—WANTED, on June 6, an outdoor Assistant (gentleman), about 23, for good-class Retail and Dispensing business; must be a good Dispenser and Counterman. Apply personally, or send usual particulars to Banbury, 186 Lavender Hill, S.W.

**SHERINGHAM.**—Assistant, unqualified, required for Retail, Dispensing, and Photographic business. Apply, giving full particulars as to experience, references, and salary required (doors), to J. B. Gooch, W. H. Burrell & Co., High Street, Sheringham.

**SOUTH COAST.**—Wanted, qualified Manager, about 30, accustomed to good-class trade; good Salesmanship and ability to increase turnover essential. Full particulars of age, height, experience, and salary expected to 108/28, Office of this Paper.

**SOUTH DEVON COAST.**—Junior Assistant required for summer season; good Counterman; knowledge of Photography. References and salary required to 109/5, Office of this Paper.

**SOUTH WALES.**—Qualified Manager, married, required for good progressive business in the Rhondda Valley; capital opening; good house; interest in the profits; applicants must speak Welsh. "S.W." (106/331), Office of this Paper.

**STAFFORD.**—Competent Assistant, qualified or experienced, for Dispensing Counter; must be thoroughly capable and quick worker; state fully experience, age, and salary required in first letter. Averills', Pharmaceutical Chemist, Stafford.

**WESTON-SUPER-MARE.**—Assistant (outdoors) for good-class Retail and Dispensing. Please state full particulars and references to Blackmore, Weston-super-Mare.

**A SMART Junior** required for Light Cash Retail trade; no Sunday or Bank Holiday duty. Apply, stating age, salary required, and previous experience, to Izon, Chemist, High Street, Aston, Birmingham.

**A N energetic Junior** wanted for quick Retail; no Sunday duty. Apply, morning or evening, or by letter, stating age, salary required, Brooks' Drug Stores, corner of High Street, Broadway, Deptford.

**A SSISTANT** wanted for good-class Family business; qualification not essential, but must be reliable Dispenser. A Harold Lyon, 18 Formosa Street, Warwick Avenue, W.9.

**C APABLE Assistant**, mainly for Dispensing. Apply, letter or Brickell & Jones, 295 High Road, Brondesbury, N.W.

**D ISPENSER (Minor or Apothecaries' Hall)**, and accustomed to Hospital work, required for about 4 weeks. Apply, stating age, experience, etc., enclosing copies of testimonials, to the Pharmacist, West London Hospital, Hammersmith Road, W.6.

**IMPROVER**, or youth just finished apprenticeship, wanted for June 21st. Apply, stating salary required, to Mrs. Ho Market Place, Wallingford-on-Thames.

**J UNIOR** wanted (male); able to Dispense; age about 21; must have good references; outdoors. Apply, with full particulars, personally preferred, to Gould, 10 High Road, Chiswick, W.4. Phone Chiswick 1428.

**J UNIOR Assistant** wanted, in about 3 weeks, for Light Retail and Dispensing business; must be good at Counter. Apply, stating salary required, with references, A. W. Hanson, 23, Street, Sidcup.

**J UNIOR or Improver**, outdoors; qualified Senior kept. Apply, giving full particulars and salary required, to G. W. Robinson, 307 Raiton Road, Herne Hill, S.E.24.

**J UST outside London**, 'midst beautiful country.—Wanted, reliable temporary Assistant, unqualified, for from 6 to 8 weeks; middle-class Counter, with little Dispensing; hours 9 to 8; doors, £3 10s. Age, photo, and recent reference to H. Pharmacist, Uxbridge.

**L ADY (Minor qualification)** required for branch in working-class neighbourhood; duties chiefly Dispensing and Counter Sunday work. Usual particulars to Catto, Ltd., 49 Cranford Road, Ilford, Essex.

**L ADY Dispenser** required at once; North London; nice location; good salary. Reply, with full particulars, to 7/25D, Office of this Paper.

**L EWIS & BURROWS** have a vacancy for a good Assistant in the West End; outdoors; must be a competent Dispenser; preference given to an ex-Service man. Apply, giving full particulars of previous experience, 146 Holborn Bars, E.C.1.

**REQUIRED** (at once), unqualified experienced Junior Assistant (outdoors), mostly for Front Counter work and superintending; knowledge of Photography essential; must be gentlemanly of good reference. State age, height, experience, salary required, and recent photo, to Rayner & Son, Uxbridge.

**THE Royal Technical College, Glasgow.**—The Governors invite applications for a Lectureship in Pharmacy and Materia Medica; salary £400. Particulars may be obtained from the Director, to whom applications must be sent not later than 13th.

**WANTED.**—Wanted, Junior Assistant for Central London; about 23; qualified; must be gentlemanly, willing, and have sound references. Apply, by letter only, with full particulars, to Hilton, Hamilton & Co., 1 Church Place, Piccadilly, S.W. 1.

**QUALIFIED** Assistant wanted for the summer months; knowledge of Photographio trade essential; young. Apply, with particulars of experience and salary required, to Thompson & Co., Ltd., Manesty Buildings, College Lane, Liverpool.

**WANTED**, for an old-established Chemist and Druggist and Wine and Spirit business, an Assistant, with a view to a purchase, no Panel Dispensing. For more particulars apply to Skelton, 41 High Street, Maryport, Cumberland.

**WANTED**, qualified Assistant, for 12 weeks' Locum commencing June 27th. Full particulars (personal call preferred), Briggs, Chemist, 126 Hoe Street, Walthamstow.

### WHOLESALE.

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**A.**—JUNIOR (unqualified); good all-round experience, including Photography; good references; London or Midlands preferred, not essential. Apply 107/39, Office of this Paper.

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